

Db 301 CGCGCTCCCGTCCATCTTGGGGCCCAACGACCCCGCGGAGG 345

RESULT 6

US-09-194-949A-5
; Sequence 5, Application US/09194949A
; Patent No. 6653125
; GENERAL INFORMATION:
; APPLICANT: Merck & Co., Inc.
; APPLICANT: Donnelly, John J.
; APPLICANT: Fu, Tong-Ming
; APPLICANT: Liu, Margaret A.
; APPLICANT: Shiver, John W.
; TITLE OF INVENTION: SYNTHETIC HEPATITIS C GENES
; FILE REFERENCE: 19732YP
; CURRENT APPLICATION NUMBER: US/09/194,949A
; CURRENT FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: PCT/US97/09884
; PRIOR FILING DATE: 1997-06-06
; PRIOR APPLICATION NUMBER: 60/020,494
; PRIOR FILING DATE: 1996-06-11
; PRIOR APPLICATION NUMBER: 60/033,534
; PRIOR FILING DATE: 1996-12-20
; PRIOR APPLICATION NUMBER: 08/865,823
; PRIOR FILING DATE: 1997-05-30
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 573
; TYPE: DNA
; ORGANISM: Hepatitis C Virus
US-09-194-949A-5

Query Match 78.4%; Score 270.4; DB 3; Length 573;
Best Local Similarity 86.4%; Pred. No. 1.2e-64;
Matches 298; Conservative 0; Mismatches 47; Indels 0; Gaps 0;
Qy 1 ATGAGCACACTTCTTAAACCAAGAAAAACCAAGAAAAACCAACCAACCCGCGCCACAG 60
Db 1 ATGAGCAGCATCTTAAACCTCAAGAAAAACCAACCAACCTTAAACCAACCCGCGCCACAG 60
Qy 61 GACGTTAAGTTCCAGGCGCGGTGAGTCTGTTGGTGGAGTTACGTCTACCAACGCGCAGG 120
Db 61 GACGTTAAGTTCCAGGCGCGGTGAGTCTGTTGGTGGAGTTACGTCTGCGCGCAGG 120
Qy 121 GCGCCCAAGTTGGGTGCGTGCAGTGCAGAGCTTCCGAGCGGTGCGAACCTCGCAGT 180
Db 121 GCGCCCAAGTTGGGTGCGTGCAGTGCAGAGCTTCCGAGCGGTGCGAACCTCGTGGGA 180
Qy 181 AGGCGCCAAACCCATCCCGAGGCGCGCGAACCAGAGGCGAGTCTCTGGGCTCAGCCCGG 240
Db 181 AGGCGACAGCTATCCCCAAGGCTCGCGCGCGCGAGGCGAGTCTCTGGGCTCAGCCCGG 240
Qy 241 TACCCCTGGCCCTATATGGGAATAGAGGCTGCGGCTGCGGAGGAGGTGCTCTGTCCCG 300
Db 241 TACCCCTGGCCCTCTATGGCAATGAGGCTTCCGGTGGCAGGATGCTCTGTCCCGC 300
Qy 301 CGCGCTCTCGCGCTCTGTTGGGGCCCAATGACCCCGCGCGCAGG 345
Db 301 CGCGCTCTCGCGCTCTGTTGGGGCCCACTGACCCCGCGGTAGG 345

RESULT 7

PCT-US95-10398-136
; Sequence 136, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BURKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE

; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 136:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homopapiens
; INDIVIDUAL ISOLATE: S52
PCT-US95-10398-136

Query Match 78.4%; Score 270.4; DB 6; Length 573;
Best Local Similarity 86.4%; Pred. No. 1.2e-64;
Matches 298; Conservative 0; Mismatches 47; Indels 0; Gaps 0;
Qy 1 ATGAGCACACTTCTTAAACCAAGAAAAACCAAGAAAAACCAACCAACCCGCGCCACAG 60
Db 1 ATGAGCACACTTCTTAAACCTCAAGAAAAACCAAGAAAAACCAACCAACCCGCGCCACAG 60
Qy 61 GACGTTAAGTTCCAGGCGCGGTGAGTCTGTTGGTGGAGTTACGTCTACCAACGCGCAGG 120
Db 61 GACGTTAAGTTCCAGGCTGGCGGACAGATCGTTGGTGGAGTATACGTCTGCGCGCAGG 120
Qy 121 GCGCCCAAGTTGGGTGCGTGCAGTGCAGAGCTTCCGAGCGGTGCGAACCTCGCAGT 180
Db 121 GCGCCCAAGTTGGGTGCGTGCAGTGCAGAGCTTCTGAACGCTCACAGCTCGCGGA 180
Qy 181 AGGCGCCAAACCCATCCCGAGGCGCGCGAACCAGAGGCGAGTCTCTGGGCTCAGCCCGG 240
Db 181 CGAGCAGAGCTATCCCCAAGGCGGTGCGAGCGAAGGCGGTCTCTGGGCTCAGCCCGG 240
Qy 241 TACCCCTGGCCCTATATGGGAATAGAGGCTGCGGCTGCGGAGGAGGTGCTCTGTCCCG 300
Db 241 TACCCCTGGCCCTCTATGGTAATAGAGGCTGCGGCTGGGCGAGGAGGTCTCTGTCCCA 300
Qy 301 CGCGCTCTCGCGCTCTGTTGGGGCCCAATGACCCCGCGCGCAGG 345
Db 301 CGCGCTCTCGCGCTCTTGGGGCCCAACGACCCCGCGCGGAGG 345

RESULT 8

[illegible]

RESULT 12
US-08-290-665A-138
; Sequence 138, Application US/08290665A
; Patent No. 5862852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PORCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290.665A

Query Match	77.4%	Score 267.2;	DB 2;	Length 573;
Best Local Similarity	85.8%;	Pred. No. 8.8e-64;		
Matches 296;	Conservative	0;	Mismatches 49;	Indels 0;
				Gaps 0;

Qy	1	ATGAGCACATTTCTTAAACCAAAAGAAAAAACCAAAAGAAACACCAAAACCCGCGCCACAG	60
Db	1	ATGAGCACATTTCTTAAACCTCAAAAGAAAAACCAAAAGAAACACCATCTCGTCGCCACAG	60
Qy	61	GACGTTAAGTTCCGAGCGCGCGGTGAGATCGTTGTGTGAGTTTACGTGCTTACACCGAGG	120
Db	61	GACGTCAAGTTCCGCGGTGGCGGACAGATCGTTGTGTGAGTATACGTGTTGCCGCGCAGG	120
Qy	121	GGCCCCAGTTGGGTGTGGTGCATGTCGCGCAGACTTCCGAGCGGTGCGCAACTCGCAGT	180
Db	121	GGCCCAACGATTGGGTGTGGCGCGCAGCGGCTTAAACTTCTGAACGGTCAACAGCTTCGCGGA	180

181	AGCGCGCAACCCATCCCCAGCGCGCGCCGCAACCGAGGGCAGGTCTCTGGGTCTCAGCCCGGG	240
Qy		
181	CGCGACACGCCTATCCCCAAGCGCGCTCGAGCGAAGCGCCGCTCTGGGTCTCAGCCCTGGG	240
Db		
241	TACCTTGGCCCCCTATATGGGAATAGGGCTGCGGGTGGGCGAGGTGGCTCTCTGTCCCCG	300
Qy		
241	TACCTTGGCCCCCTCTATGGTTAAAGAGGGCTGCGGGTGGCGAGGTGGCTCTCTGTCCCCA	300
Db		
301	CGGGGTCTCGCCCGTCTGTGGGGGCCAAAATGACCCCCCGGCGCAGG	345
Qy		
301	CGGGGTCTCCGTTCATCTTTGGGGCCAAAAGACCCCCGGCGGAGG	345
Db		

RESULT 13
 US-08-290-665A-141
 ; Sequence 141, Application US/08290665A
 ; Patent No. 5882852
 ; GENERAL INFORMATION:
 ; APPLICANT: BUKH, J., MILLER, R.H. AND
 ; APPLICANT: PURCELL, R.H.
 ; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 ; TITLE OF INVENTION: AMINO ACID SEQUENCES OF
 ; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 ; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 ; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 ; NUMBER OF SEQUENCES: 263
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: MORGAN & FINNEGAN
 ; STREET: 345 PARK AVENUE
 ; CITY: NEW YORK
 ; STATE: NEW YORK
 ; COUNTRY: USA
 ; ZIP: 10154
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: FLOPPY DISK
 ; COMPUTER: IBM PC COMPATIBLE
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: WORDPERFECT 5.1
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/290,665A
 ; FILING DATE: 15-AUG-1994
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:

```
Query Match          77.4%; Score 267.2; DB 2; Length 573;
Best Local Similarity 85.8%; Pred. No. 8.8e-64;
Matches 296; Conservative 0; Mismatches 49; Indels 0; Gaps 0;
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	Qy	1	ATGAGCACACTTCTTAACCAACAAGAAAGAACCAAAGAAACCAACCAACCCGCCGCACAG	60
	Dd	1	ATGAGCACAAATCCTAATACTCTAAGAAGAAACCAAACGTAACCAACCGTCGTGCCCATG	60
	Qy	61	GACGTTAAGTTCACGCGCGCGCTCAGATCGTTGGTGGAATTTCGTGCTTACCACGACAGG	120
	Dd	61	GATGTGAATAATTCGCGGCGCGCCAGATCGTTGGCGGAGTTTATCTGTGCGCGCAGG	120


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; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: S2
PCT-US95-10398-137

Query Match          77.4%; Score 267.2; DB 6; Length 573;
Best Local Similarity 85.8%; Pred. No. 8.8e-64;
Matches 296; Conservative 0; Mismatches 49; Indels 0; Gaps 0;

QY 1 ATGAGCACACTTCTCTAAACCAACAGAAACCAAAAGAAACACCAACCCNCGGCCACAG 60
Db 1 ATGAGCACACTTCTCTAAACCTCAAGAAAAACAAAGAAACACCATCCGTCGCCACAG 60

QY 61 GACGTAAAGTTCCCGCGCGCGTCCAGATCGTTGGTGGAGTTTACGTGTACCAAGCAGG 120
Db 61 GACATCAAGTTCCCGGTGGCGGACAGATCGTTGGTGGAGTATACGTGTTCGCGCAGG 120

QY 121 GCGCCCGAGTTGGGTGTGCGTGCAGTGCACAAGACTTCCGAGCGGTCCGCAACTCGCAGT 180
Db 121 GCGCCACGATTGGGTGTGCGCGCAGCGCGTAAAACTTCTGAACGGTCAACAGCCTCGCGGA 180

QY 181 AGGCGCCACCACTCCCGAGGCGCGCGCAACGAGGGCAGGTCTGGGCTCAGCCCGGG 240
Db 181 CGCGGACAGCCTATCCCCAAGGCGGTCCGAGCGAAGGCCGATCCTTGGGCTCAGCCCGGG 240

QY 241 TACCCCTTGGCCCTATATGGGAATGAGGGCTCGGGTGGGCGAGGGTGGCTCCTGTCCCG 300
Db 241 TACCCCTTGGCCCTCTATGGTAACGAGGGCTCGGGGTGGGCGAGGGTGGCTCCTGTCCCA 300

QY 301 CGCGGCTTCGCCCCTGTGTTGGGGCCCAATGACCCCGGCGCAGG 345
Db 301 CGCGGCTCCCGTCCATCTTGGGGCCCAATGACCCCGGCGAGG 345
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Search completed: January 29, 2006, 23:23:54
Job time : 147 secs

BEST AVAILABLE COPY

Db 61 GACGTTAAGTTCCTCCAGGCGCGGTGAGATCGTTGGTGGAGTTTACGTGCTACCGCAGG 120
Qy 121 GCGCCCAAGTTGGGTGTGCGTGCAGTGGCGAAGACTTCCGAGCGGTGCGAACCTCGCAGT 180
Db 121 GCGCCCAAGTTGGGTGTGCGTGCAGTGGCGAAGACTTCCGAGCGGTGCGAACCTCGCAGT 180
Qy 181 AGGCGCCCAACCCATCCCCAGGCGCGCGAACCAGAGGCGAGTCTCTGGGCTCAGGCCCGG 240
Db 181 AGGCGCCCAACCCATCCCCAGGCGCGCGAACCAGAGGCGAGTCTCTGGGCTCAGGCCCGG 240
Qy 241 TACCCCTTCGCCCTTATATGGAATGAGGCTGCGGCTGCGGCGAGGTCCTGTGCCCG 300
Db 241 TACCCCTTCGCCCTTATATGGAATGAGGCTGCGGCTGCGGCGAGGTCCTGTGCCCG 300
Qy 301 CGCGCTCTCGCCCTCGTGGGCGCCAAATGACCCCGCGCAGGA 346
Db 301 CGCGCTCTCGCCCTCGTGGGCGCCAAATGACCCCGCGCAGGA 346

RESULT 2

US-09-878-281-147
; Sequence 147, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT: <Unknown>
; TITLE OF INVENTION: New sequences of hepatitis C virus
; genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/878,281
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 147:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 346 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 1..342

US-09-878-281-147

Query Match 100.0%; Score 345; DB 3; Length 346;
Best Local Similarity 99.7%; Pred. No. 1.3e-96;
Matches 345; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1 ATGAGCACACTTCCTTAAACCAAGAAAAACCAAGAAAAACCAACCCCGGCCACAG 60
Db 1 ATGAGCACACTTCCTTAAACCAAGAAAAACCAAGAAAAACCAACCCCGGCCACAG 60
Qy 61 GACGTTAAGTTCCTCCAGGCGCGGTGAGATCGTTGGTGGAGTTTACGTGCTACCGCAGG 120
Db 61 GACGTTAAGTTCCTCCAGGCGCGGTGAGATCGTTGGTGGAGTTTACGTGCTACCGCAGG 120
Qy 121 GCGCCCAAGTTGGGTGTGCGTGCAGTGGCGAAGACTTCCGAGCGGTGCGAACCTCGCAGT 180
Db 121 GCGCCCAAGTTGGGTGTGCGTGCAGTGGCGAAGACTTCCGAGCGGTGCGAACCTCGCAGT 180

Qy 181 AGGCGCCCAACCCATCCCCAGGCGCGCGAACCAGAGGCGAGTCTCTGGGCTCAGCCCCGG 240
Db 181 AGGCGCCCAACCCATCCCCAGGCGCGCGAACCAGAGGCGAGTCTCTGGGCTCAGCCCCGG 240
Qy 241 TACCCCTTCGCCCTTATATGGAATGAGGCTGCGGCTGCGGCGAGGTCCTGTGCCCG 300
Db 241 TACCCCTTCGCCCTTATATGGAATGAGGCTGCGGCTGCGGCGAGGTCCTGTGCCCG 300
Qy 301 CGCGCTCTCGCCCTCGTGGGCGCCAAATGACCCCGCGCAGGA 346
Db 301 CGCGCTCTCGCCCTCGTGGGCGCCAAATGACCCCGCGCAGGA 346

RESULT 3

US-09-873-224-147
; Sequence 147, Application US/09873224
; Publication No. US20030064360A1
; GENERAL INFORMATION:
; APPLICANT: <Unknown>
; TITLE OF INVENTION: New sequences of hepatitis C virus
; genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; CORRESPONDENCE ADDRESS:
; STREET: Industriepark Zwijnaarde 7, box 4
; CITY: Ghent
; COUNTRY: Belgium
; ZIP: B-9052
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/873,224
; FILING DATE: 05-Jun-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Innogenetics sa
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 00 32 9 241 07 11
; TELEFAX: 00 32 9 241 07 99
; INFORMATION FOR SEQ ID NO: 147:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 345 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..345
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 1..342
; SEQUENCE DESCRIPTION: SEQ ID NO: 147:

US-09-873-224-147

Query Match 96.8%; Score 334; DB 3; Length 345;
Best Local Similarity 99.7%; Pred. No. 3.3e-93;
Matches 345; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
Qy 1 ATGAGCACACTTCCTTAAACCAAGAAAAACCAAGAAAAACCAACCCCGGCCACAG 60
Db 1 ATGAGCACACTTCCTTAAACCAAGAAAAACCAAGAAAAACCAACCCCGGCCACAG 59
Qy 61 GACGTTAAGTTCCTCCAGGCGCGGTGAGATCGTTGGTGGAGTTTACGTGCTACCGCAGG 120
Db 60 GACGTTAAGTTCCTCCAGGCGCGGTGAGATCGTTGGTGGAGTTTACGTGCTACCGCAGG 119

Query Match 86.4%; Score 298; DB 3; Length 309;
Best Local Similarity 99.7%; Pred. No. 4.5e-82;
Matches 309; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
QY 1 ATGAGCACCTTCTTAACGACAAAGAAAAACCAAAAGAAACCAACCACTCCGCGCCACAG 60

Query Match 79.0%; Score 272.6; DB 3; Length 652;

Best Local Similarity 86.7%; Pred. No. 3.6e-74;		
Matches 299; Conservative 0; Mismatches 46; Indels 0; Gaps 0;		
QY	1 ATGAGCACATCTCTTAACACCAAGAAGAAAACCAAGAAACCAACCAACCCGCGCCACAG 60	
Db	239 ATGAGCAGCAATCTTAACCTTCAAGAAAAACCAAAAAAACAACCAACCGCGCCACAG 298	
QY	61 GACGTTAAGTTTCCACAGCGCGGTTCAGATCGTGTGGAGTTTACGTGTACACGCGAGG 120	
Db	299 GAGGTCAGTTTCCCGCGCGGTGGCCAGATCGTGTGGTGGAGTCTACGTGTACCGCGCAGG 358	
QY	121 GGGCCCCCAGTTGGGTGTGCGTGCAGTGCAGCAAGACTTCCGAGCGGTGCGAACCTTCGCAGT 180	
Db	359 GGCCCTAGATTGGGTGTGCGCGCAGCGGAAAGACTTCGGAGCGGTGCGAACCTTCGTGGG 418	
QY	181 AGGCGCCAAACCCATCCCCAGGCGCGCCGAAACCGAGGCGAGGTCTTGGGCTTCAGCCCGGG 240	
Db	419 AGGGCCCAACCTATTCCCAAGGAGCGCGACCCGAGGGCAGGTCTCTGGGCGCAGCCCGGG 478	
QY	241 TACCCCTTGGCCCCCTATATGGGAATGAGGGCTGCGGGTGGGCGAGGTTGGCTCTGTTCGCCG 300	
Db	479 TACCCCTGGCCCCCTCTATGTAAAGAGGGCTGCGGGTGGGCGAGTNGGCTCTCTTCGCCCT 538	
QY	301 CGGGGCTCTCGCCGTGTGGGGGCCAAATGACCCCCGGCGCAGG 345	
Db	539 CGGGGCTCCCGTCTTACTTGGGGTTCCTACTGACCCCGGCGTAGG 583	

```

1  RESULT 6
2  US-09-899-046-165
3  ; Sequence 165, Application US/09899046
4  ; Publication No. US20030008274A1
5  ; GENERAL INFORMATION:
6  ;
7  ; APPLICANT:
8  ;
9  ; TITLE OF INVENTION: New sequences of hepatitis C virus
10 ;
11 ; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
12 ;
13 ; NUMBER OF SEQUENCES: 270
14 ;
15 ; COMPUTER READABLE FORM:
16 ;
17 ; MEDIUM TYPE: Floppy disk
18 ;
19 ; COMPUTER: IBM PC compatible
20 ;
21 ; OPERATING SYSTEM: PC-DOS/MS-DOS
22 ;
23 ; SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
24 ;
25 ; CURRENT APPLICATION DATA:
26 ;
27 ; APPLICATION NUMBER: US/09/899,046
28 ;
29 ; FILING DATE:
30 ;
31 ; PRIOR APPLICATION DATA:
32 ;
33 ; APPLICATION NUMBER: 08/362,455
34 ;
35 ; FILING DATE:
36 ;
37 ; INFORMATION FOR SEQ ID NO: 165:
38 ;
39 ; SEQUENCE CHARACTERISTICS:
40 ;
41 ; LENGTH: 499 base pairs
42 ;
43 ; TYPE: nucleic acid
44 ;
45 ; STRANDEDNESS: single
46 ;
47 ; TOPOLOGY: linear
48 ;
49 ; MOLECULE TYPE: DNA (genomic)
50 ;
51 ; HYPOTHEetical: NO
52 ;
53 ; ANTI-SENSE: NO
54 ;
55 ; US-09-899-046-165

```

Query Match	78.6%	Score 271.2;	DB 3;	Length 499;
Best Local Similarity	86.3%;	Pred. No. 9.4e-74;		
Matches 297;	Conservative 0;	Mismatches 47;	Indels 0;	Gaps 0;

Qy	1	ATGAGCACATTCTTAAACCAACAAGAAAAACCAAAAAACCAACACNCCGGCCACAG	60
Db	1	ATGAGCAGCAATCTTAACCTCAAGAAAAACCAAAAGTAAACCAACCGCGCCCTATG	60
Qy	61	GAGCTTAAAGTTCCACGCGCGGTCAGATCGTTGGTGAGTTTACGTGTACCAACGCAGG	120
Db	61	GAGCTTAAAGTTCCACGCGGTCAGATCGTTGGCGGAGTTTACTTGTTCGCGGCAGG	120
Qy	121	GGCCCCCAGTTGGTGTCGTGCAAGACTTCCGAGCGGTGCGCAACTCTCGCAGT	180

Db	121	GGCCCCAGGTTGGTGTGCGCGCGACTCGGAGAGCTTCGGAGCGGTGCGAACCTCGTGGG	180
Qy	181	AGCGCGCAACCCATCCCGAGGGCGCGCAACCGAGGCGAGTCTCTGGGCTCAGCCCCGGG	240
Db	181	AGCGCGCAACCTATCCCGAGCGCGCGCAACCGAGGCGAGTCTCGGCGAGCCCCGGG	240
Qy	241	TACCTTTGGCCCCCTATATGGGAAATGAGGGCTGCGGGTGGGAGGGTGGCTCTGTCTCCCG	300
Db	241	TATCTTGGCCCCCTTACGGCAATAGGGCTGTGGTGGGAGGGTGGCTCTGTCTCCCT	300
Qy	301	CGCGGCTCTGCGCCGTCGTGGGGCCCCAAATACCCCCGGCGAG	344
Db	301	CGCGGNTCTCGGNGCTCTTGGGGCCCCAAATGATCCCCGGGAG	344

RESULT 7
 US-09-878-281-165
 ; Sequence 165, Application US/09878281
 ; Publication No. US20030032005A1
 ; GENERAL INFORMATION:
 ; APPLICANT:
 ; TITLE OF INVENTION: New sequences of hepatitis C virus
 ; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
 ; NUMBER OF SEQUENCES: 270
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/878,281
 ; FILING DATE:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/362,455
 ; FILING DATE:
 ; INFORMATION FOR SEQ ID NO: 165:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 499 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: DNA (genomic)
 ; HYPOTHETICAL: NO
 ; ANTI-SENSE: NO
 US-09-878-281-165

Query Match	78.6%;	Score 271.2;	DB 3;	Length 499;
Best Local Similarity	86.3%;	Pred. No. 9.4e-74;		
Matches 297;	Conservative 0;	Mismatches 47;	Indels 0;	Gaps 0;
Qy	1	ATGAGCACATTCCTTAACCAACAAGAAACCAAAAGAAACACCAACNCNCGGCGCACAG	60	
Db	1	ATGAGCACGAATCCTTAAACCTTCAAAGAAAAACCAAAACGTAACCAACCGCGCGCCTATG	60	
Qy	61	GACGTTAAGTTTCCACAGCGGCGGTACAGATCGTTGGTGGAGTTTACGTCTACCAACGCACAGG	120	
Db	61	GACGTTAAGTTTCCACAGCGGCGGTACAGATCGTTGGGAGTTTACTGTTGGCGGCGCAGG	120	
Qy	121	GGCCCCCAGTTGGGTGTGCGTGCAGTGGCGAAGACTTCCGAGCGGTCCGCACTTCGCAGT	180	
Db	121	GGCCCCCAGTTGGGTGTGCGCGGACTTCGGAAGACTTCGGAGCGGTCCGCAACTCGTGGG	180	
Qy	181	AGGCGCCAAACCCATCCCCAGGGCGCGCAACCCGAGGCGCAGGTCTTGGGCTCAGCGCCGGG	240	
Db	181	AGGCGCCAAACCTATCCCCAAGGCGCGCGCAACCCGAGGCGCAATCCTGGGCGCAGCGCCGGG	240	
Qy	241	TACCTTTGGCCCTATATGGGAATGAGGGCTTGGGCTGGGCGAGGGTGGCTCTCTGTCCCGG	300	
Db	241	TATCTTTGGCCCTTTTACGCCAATGAGGGCTTGGTGGGCGAGGGTGGCTCTGTTCCTCT	300	
Qy	301	CGCGGCTCTCGCCCGTGTGGGGCCCCAAATACGCCCCCGCGCAG	344	
Db	301	CGCGGNTCTCGNCGTCTTGGGGCCCCAAATGATCCCCGGGNGAG	344	


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; PRIOR APPLICATION NUMBER: 60/033,534
; PRIOR FILING DATE: 1996-12-20
; PRIOR APPLICATION NUMBER: 60/020,494
; PRIOR FILING DATE: 1996-06-11
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 573
; TYPE: DNA
; ORGANISM: Hepatitis C Virus
US-10-664-391-5

Query Match      78.4%; Score 270.4; DB 9; Length 573;
Best Local Similarity 86.4%; Pred. No. 1.7e-73;
Matches 298; Conservative 0; Mismatches 47; Indels 0; Gaps 0;

QY 1 ATGAGCACACTTCTTAACCAACAAAGAAAACCAAAAGAAACCAACCAACCCGCGCCACAG 60
DB 1 ATGAGCAGCATCTTAACCTCAAGAAAACCAAAACGTAACACCAACCGCGCCACAG 60
QY 61 GACGTTAAGTTCCAGCGCGGTGCGTGCAGTCTGTTGGTGGAGTTTACGTCTACCAACGACAGG 120
DB 61 GACGTTAAGTTCCAGCGCGGTGCGTGCAGTCTGTTGGTGGAGTTTACTTGTGCGGCGCAGG 120
QY 121 GCGCCCGAGTTGGGTGTCGTCAGTGCAGAGACTTCCGAGCGGTGCGAAGCTCGTGCAGT 180
DB 121 GCGCCCGAGTTGGGTGTCGTCAGTGCAGAGACTTCCGAGCGGTGCGAAGCTCGTGCAGT 180
QY 181 AGGCGCCAAACCATCCCGAGCGCGCGAACCGAGGCGAGTCTCTGGGCTCAGCCCGGG 240
DB 181 AGGCGACAGCTATCCCAAGCTCGCGCGCGAGGCGAGTCTCTGGGCTCAGCCCGGG 240
QY 241 TACCCCTTGGCCCTTATATGGGAATGAGGGCTGCGGGTGGGCGAGGTGGCTCTGTCCCGG 300
DB 241 TACCCCTTGGCCCTTATATGGCAATGAGGGCTGCGGGTGGGCGAGGTGGCTCTGTCTCCCT 300
QY 301 CGCGGCTCTCGCCGTCGTCGGGGCCCAATGACCCCGCGCGAGG 345
DB 301 CGCGGCTCTCGGCTAGTTGGGGCCCACTGACCCCGCGCGTAGG 345
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RESULT 11
US-09-899-046-193
; Sequence 193, Application US/09899046
; Publication No. US20030008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 193:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 498 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..498
; QUERY MATCH
; BEST LOCAL SIMILARITY 76.7%; Score 264.6; DB 3; Length 498;
; Mismatches 50; Indels 0; Gaps 0;
```

```
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 1..495
US-09-899-046-193

Query Match      76.7%; Score 264.6; DB 3; Length 498;
Best Local Similarity 85.5%; Pred. No. 1e-71;
Matches 294; Conservative 0; Mismatches 50; Indels 0; Gaps 0;

QY 1 ATGAGCACACTTCTTAACCAACAAAGAAAACCAAAAGAAACCAACCCGCGCCACAG 60
DB 1 ATGAGCAGCATCTTAACCTCAAGAAAACCAAAACGTAACACCAACCGCGCCATATG 60
QY 61 GACGTTAAGTTCCAGCGCGGTGCGTGCAGTCTGTTGGTGGAGTTTACGTCTACCAACGACAGG 120
DB 61 GACGTTAAGTTCCAGCGCGGTGCGTGCAGTCTGTTGGTGGAGTTTACTTGTGCGGCGCAGG 120
QY 121 GCGCCCGAGTTGGGTGTCGTCAGTGCAGAGACTTCCGAGCGGTGCGAAGCTCGTGCAGT 180
DB 121 GCGCCCGAGTTGGGTGTCGTCAGTGCAGAGACTTCCGAGCGGTGCGAAGCTCGTGCAGT 180
QY 181 AGGCGCCAAACCATCCCGAGCGCGCGAACCGAGGCGAGTCTCTGGGCTCAGCCCGGG 240
DB 181 AGGCGTCAACTATCCCAAGCTCGCGCGCGAGTCTCTGGGCGAGGTCTGCGGCGAAGCCGG 240
QY 241 TACCCCTTGGCCCTTATATGGGAATGAGGGCTGCGGGTGGGCGAGGTGGCTCTGTCCCGG 300
DB 241 TACCCCTTGGCCCTTATATGGCAATGAGGGCTGCGGGTGGGCGAGGTGGCTCTGTCTCTCT 300
QY 301 CGCGGCTCTCGCCGTCGTCGGGGCCCAATGACCCCGCGCGAG 344
DB 301 CGCGGCTCTCGGCTAGTTGGGGCCCAATGATCCCGCGCGAG 344
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RESULT 12
US-09-878-281-193
; Sequence 193, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/878,281
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 193:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 498 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..498
; QUERY MATCH
; BEST LOCAL SIMILARITY 76.7%; Score 264.6; DB 3; Length 498;
; Mismatches 50; Indels 0; Gaps 0;
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Result No.	Score	Query		DB	ID	Description
		Match	Length			
1-3	257.6	74.7	2253	7	US-10-985-205-5	Sequence 5, Appli
	257.6	74.7	2428	7	US-10-985-205-2	Sequence 2, Appli
	257.6	74.7	2442	7	US-10-985-205-4	Sequence 4, Appli
4	257.6	74.7	9599	7	US-10-985-205-1	Sequence 1, Appli
5	160	46.4	2178	7	US-10-528-644A-50	Sequence 50, Appl
6	87.2	25.3	109	7	US-10-993-625A-32	Sequence 32, Appl
7	39	11.3	541	7	US-10-497-135A-12	Sequence 12, Appl
8	38.4	11.1	1550	8	US-11-060-029-12	Sequence 12, Appl
9	37.4	10.8	550	7	US-10-497-135-13	Sequence 13, Appl
10	36.6	10.6	155515	8	US-11-112-908-42	Sequence 42, Appl
11	36.6	10.6	159660	8	US-11-112-908-43	Sequence 43, Appl
12	34.8	10.1	153376	8	US-11-121-086-5	Sequence 5, Appli
13	34.4	10.0	11070	8	US-11-121-086-5	Sequence 5, Appli
14	34.4	10.0	78869	8	US-11-075-185-34	Sequence 34, Appl
15	32.8	9.5	1229	7	US-11-075-185-1	Sequence 1, Appli
16	32.8	9.5	1229	7	US-10-750-185-42020	Sequence 42020, A
17	32.8	9.5	4738	8	US-10-750-623-42020	Sequence 42020, A
18	32.4	9.4	2438	8	US-11-136-527-2082	Sequence 2082, Ap
19	32.4	9.4	1625	8	US-11-000-688-283	Sequence 283, App
20	32.2	9.3	1625	7	US-10-750-185-33679	Sequence 33679, A
21	32.2	9.3	159497	8	US-10-750-623-33679	Sequence 33679, A
22	32	9.3	6600	8	US-11-112-908-61	Sequence 61, Appl
				8	US-11-128-061-6963	Sequence 6963, Ap

QY 121 GGGCCCAAGTTGGGTGCGTGCAGTGGCGAAGACTTCCAGCGGTGCGCAACTCCAGT 180
Db 462 GGGCCCTAGATTGGGTGCGCGCGACGAGGAAGACTTCCAGCGGTGCGCAACTCCAGT 521
QY 181 AGCGCGCAACCCATCCCAAGGCGCGCCGAACCGAGGCGAGGTCTGGGCTCAGCCCGG 240
Db 522 AGAGCTCAGCTATCCCAAGGCGCGCTGGCCCGAGGCGAGGCTGAGGCTAGCCCGG 581
QY 241 TACCTTGGCCCTATATATGGAATGAGGCTGCGGTGGCGCAGGCTGCTTCTGTCCTCC 300
Db 582 TACCTTGGCCCTCTATGCAATGAGGCTGCGGTGGCGCGGATGGCTCTCTGCTCTCC 641
QY 301 CGGGCTCTCGCCCGTCTGGGGCCCAATGATGACCCCGCGGCGAGG 345
Db 642 CGTGGCTCTCGGCTAGCTGGGGCCCAAGAGACCCCGCGGTAGG 686

RESULT 5

US-10-528-644A-50
; Sequence 50, Application US/10528644A
; Publication No. US20050287117A1
; GENERAL INFORMATION:
; APPLICANT: SUNG, Young Chul
; APPLICANT: YOUN, Jin-Won
; APPLICANT: YANG, Se-Hwan
; APPLICANT: PARK, Su-Hwan
; APPLICANT: LEE, Chang Geun
; TITLE OF INVENTION: A VACCINE ENHANCING THE PROTECTIVE IMMUNITY TO
; FILE REFERENCE: 428.1049
; CURRENT APPLICATION NUMBER: US/10/528,644A
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: PCT/KR03/01951
; PRIOR FILING DATE: 2003-11-19
; PRIOR APPLICATION NUMBER: KR 2002-0058712
; PRIOR FILING DATE: 2002-09-27
; PRIOR APPLICATION NUMBER: KR 2002-68496
; PRIOR FILING DATE: 2002-11-06
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: KopatentIn 1.71
; SEQ ID NO 50
; LENGTH: 2178
; TYPE: DNA
; ORGANISM: Hepatitis C virus and Herpes Simplex Virus (gDs?ST)
US-10-528-644A-50

Query Match 46.4%; Score 160; DB 7; Length 2178;
Best Local Similarity 82.1%; Pred. No. 1.6e-35;
Matches 184; Conservative 0; Mismatches 40; Indels 0; Gaps 0;

QY 122 GCGCCCAAGTTGGGTGCGTGCAGTGGCGAAGACTTCCAGCGGTGCGCAACTCCAGTGA 181
Db 110 GCGCCCAAGTTGGGTGCGCGCGACTAGAGAGACTTCCAGCGGTGCGCAACTCCAGTGA 169
QY 182 GCGCGCAACCCATCCCAAGGCGCGCGCAACCGAGGCGAGGTCTGGGCTCAGCCCGGT 241
Db 170 GCGCGAAGCTATCCCAAGGCTGCGCAACCCAGGCTAGGACCTGGGCTCAGCCCGGT 229
QY 242 ACCCTGGCCCTATATGGAATGAGGCTGCGGTGGCGCAGGCTGCTTCTGTCCTCCGC 301
Db 230 ACCCTGGCCCTCTATGCAATGAGGCTGCGGATGGGCTGCGGATGGGCTGCTTCTGTCACCC 289
QY 302 CGGGCTCTCGCCCGTCTGGGGCCCAATGACCCCGCGGCGAGG 345
Db 290 GCGGCTCTCGGCTAGTTGGGGCCCAAGAGACCCCGCGGTAGG 333

RESULT 6

US-10-993-625A-32
; Sequence 32, Application US/10993625A
; Publication No. US2005027053A1
; GENERAL INFORMATION:
; APPLICANT: Allelogic Biosciences, Inc.

; TITLE OF INVENTION: Oligonucleotides Labeled with a Plurality of Fluorophores
; FILE REFERENCE: 62001-2
; CURRENT APPLICATION NUMBER: US/10/993,625A
; CURRENT FILING DATE: 2004-11-19
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 32
; LENGTH: 109
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-10-993-625A-32

Query Match 25.3%; Score 87.2; DB 7; Length 109;
Best Local Similarity 87.2%; Pred. No. 1.7e-15;
Matches 95; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 5 GCACACTTCCTAAACACACAAAGAAAACCAAAAGAAACCAACCAACCCGCGCACAGGAG 64
Db 1 GCACGAATCCTAAACCTCAAGAAAACCAAAACGTAACCAACCCGCGCACAGGAG 60
QY 65 TTAAGTTCCCGAGCGCGGTGATCGTTGGTGGAGTTTACGTGCTTACC 113
Db 61 TCAAGTTCCCGGCGGTGATCGTTGGTGGAGTTTACGTGCTTACC 109

RESULT 7

US-10-497-135-14
; Sequence 14, Application US/10497135
; Publication No. US20050272132A1
; GENERAL INFORMATION:
; APPLICANT: Biotica Technology Ltd
; APPLICANT: Gregory, Matthew A
; APPLICANT: Gaisser, Sabine
; APPLICANT: Petkovic, Hrvoje
; APPLICANT: Moss, Steven
; TITLE OF INVENTION: Production of Polyketides and Other Natural Products
; FILE REFERENCE: 4408-P03444US00
; CURRENT APPLICATION NUMBER: US/10/497,135
; CURRENT FILING DATE: 2004-05-26
; PRIOR APPLICATION NUMBER: PCT/GB03/003230
; PRIOR FILING DATE: 2003-07-16
; PRIOR APPLICATION NUMBER: GB0216509.0
; PRIOR FILING DATE: 2002-07-16
; PRIOR APPLICATION NUMBER: GB0224922.5
; PRIOR FILING DATE: 2002-10-25
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 14
; LENGTH: 541
; TYPE: DNA
; ORGANISM: Streptomyces hygroscopicus
US-10-497-135-14

Query Match 11.3%; Score 39; DB 7; Length 541;
Best Local Similarity 47.7%; Pred. No. 0.092;
Matches 114; Conservative 0; Mismatches 125; Indels 0; Gaps 0;

QY 93 TGGTGGAGTTTACGTCTACCAACGAGGGGCCCCAGTTGGGTGCGTGCAGTGCAGAA 152
Db 147 TGATCGGACGCTGGGGTACCCCACTGTGGCCCCGCACTTGAACCTACGTGCGGGAATCA 206
QY 153 GACTTCCGAGCGGTGCAACCTTCGAGTAGGCGCAACCAATCCCAAGGGCGCGCGAAG 212
Db 207 ACACGCGGACGCGCGATGCGCTCGAGGTCTACCGGACTTCTGTGTGGCGCGCGAGG 266
QY 213 CGAGGCGAGTCTCGGGCTCAGCCCGGTACCTTTGGCCCCCTATATGGGAATGAGGGCTG 272
Db 267 CGTGGACGCGGTGGATCGACCCGCGGACCATGCGCGCGCGACCGCATCGGCGCC 326
QY 273 CGGGTGGGCGAGGTGCTCTGTCTCCCGCGCGGCTCTGCGCCGCTGTGGGGCCCAATG 331
Db 327 ACGGCGCGGCGCATCATCGTGTCTTTCATCGCCGCAACGCGCGGTGACCGGGTCAACATG 385

RESULT 8

US-11-060-029-12/c

Sequence 12, Application US/11060029

Publication No. US20050268358A1

GENERAL INFORMATION:

APPLICANT: CropDesign N.V.

TITLE OF INVENTION: Plants having improved growth characteristics and a method for

FILE REFERENCES: CD-113-Pr10

CURRENT APPLICATION NUMBER: US/11/060,029

CURRENT FILING DATE: 2005-02-17

NUMBER OF SEQ ID NOS: 23

SOFTWARE: PatentIn version 3.2

SEQ ID NO 12

LENGTH: 1550

TYPE: DNA

ORGANISM: Zea mays

US-11-060-029-12

Query Match 11.1%; Score 38.4; DB 8; Length 1550;

Best Local Similarity 49.5%; Pred. No. 0.19;

Matches 96; Conservative 1; Mismatches 97; Indels 0; Gaps 0;

Qy 134 GTGTGGTGCAGTGGCGAAGACTTCCGAGCGGTGCGAACTTCGACGTAGGCGCCACCCCA 193

Db 343 GGGGGCGTGTCTGCTCGCTGCGCTGGACGTGTGAACACGAGCGGTGCCGCCGTAGTAGA 284

Qy 194 TCCCCAGGGCGCGCCGAACCGAGCGGAGGTCTCTGGGGCTCAGCCCCGGGTACCCCTTGGCCCC 253

Db 283 CGCGGAGTGCAGCGGCGCCCGGAGACCGCGCGCGCGGTGCGAGGCGCGTCCGGGCCCC 224

Qy 254 TATATGGGAATGAGGGTTCGCGGTGGCGAGGGTGGCTCTCTGTCTCCCGCGCGGCTCTCGCC 313

Db 223 CAGCTGCGGGCGGAGCGCTGGGTGGTCTGGGGCGGGCGCCCCCGCGGGTTGTGCGC 164

Qy 314 CGTCTGGGGCCCCA 327

Db 163 CGCGCCGAGACCA 150

RESULT 9

US-10-497-135-13

Sequence 13, Application US/10497135

Publication No. US2005027132A1

GENERAL INFORMATION:

APPLICANT: Biotica Technology Ltd

APPLICANT: Gregory, Matthew A

APPLICANT: Gaiser, Sabine

APPLICANT: Petkovic, Hrvoje

APPLICANT: Moss, Steven

TITLE OF INVENTION: Production of Polyketides and Other Natural Products

FILE REFERENCE: 4408-P0344US00

CURRENT APPLICATION NUMBER: US/10/497,135

CURRENT FILING DATE: 2004-05-26

PRIOR APPLICATION NUMBER: PCT/GB03/003230

PRIOR FILING DATE: 2003-07-16

PRIOR APPLICATION NUMBER: GB0216509.0

PRIOR FILING DATE: 2002-07-16

PRIOR APPLICATION NUMBER: GB0224922.5

PRIOR FILING DATE: 2002-10-25

NUMBER OF SEQ ID NOS: 63

SOFTWARE: PatentIn version 3.2

SEQ ID NO 13

LENGTH: 550

TYPE: DNA

ORGANISM: Streptomyces hygroscopicus

US-10-497-135-13

Query Match 10.8%; Score 37.4; DB 7; Length 550;

Best Local Similarity 47.3%; Pred. No. 0.26;

Matches 113; Conservative 0; Mismatches 126; Indels 0; Gaps 0;

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; PRIOR FILING DATE: 2004-04-23
; PRIOR APPLICATION NUMBER: US 60/575,978
; PRIOR FILING DATE: 2004-06-01
; PRIOR APPLICATION NUMBER: US 60/631,702
; PRIOR FILING DATE: 2004-11-30
; PRIOR APPLICATION NUMBER: US 60/633,826
; PRIOR FILING DATE: 2004-12-07
; NUMBER OF SEQ ID NOS: 511
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 43
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-112-908-43

Query Match      10.6%; Score 36.6; DB 8; Length 159660;
Best Local Similarity 50.9%; Pred. No. 2.4;
Matches 87; Conservative 0; Mismatches 84; Indels 0; Gaps 0;

QY 172 CTCGCGTAGGCGCCCAACCCATCCCGAGGCGCGCCGAAACCGAGGGGCGAGTCTCTGGGCT 231
Db 117540 CTTCCGAGCTGTGAAGCCGCCCCACCGCTTCCCGGGCTGCCCGAGCTCCCTCCCT 117481

QY 232 CAGCCCGGATACCTTGGCCCTATATGGAATGAGGGCTGCGGCTGGGCGAGGTGGCTC 291
Db 117480 CTTCCCGCTCACCTTGGGAGAGCGCGCTGGGAGGCCCTTGGCGCCCTCAGACGGGAC 117421

QY 292 CTGTCCCGCGCGGCTCTCGCCCGCTGTGGGCGCCCAAAATGACCCCGCGCGC 342
Db 117420 GGGTCCCGGGGCTGGCAGCGCCAGGCTGCCCCAGCAGGCGCGGCGAGC 117370

RESULT 12
US-11-121-086-5
; Sequence 5, Application US/11121086
; Publication No. US200502664591
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 5
; LENGTH: 153376
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-5

Query Match      10.1%; Score 34.8; DB 8; Length 153376;
Best Local Similarity 49.5%; Pred. No. 7.6;
Matches 90; Conservative 0; Mismatches 92; Indels 0; Gaps 0;

QY 143 CAGTCCGCAAGACTTCCGAGCGGTCCGCAACTCCGAGTAGGCGCCAAACCCATCCCGAGG 202
Db 77995 CAGATGGGTGATTTCCGAGGACCTCGCTGGGCTGGCGCCCTCCCATGCCCCGG 78054

QY 203 CGCGCCGAACCGAGGCGAGGTCTTGGGCTCAGCCCGGGTACCTTGGGCCCTTATATGGGA 262
Db 78055 CGCTTCCAGGAAGAGCTTATGCTGGGCTCAGCCCGAGAGGCTTTTGGAGCACCAGTGGTG 78114

QY 263 ATGAGGCTCGGGTGGGAGGCTGCTCTGTCGCCGCGGCGGCTCTCGCCGCTCGTGGG 322
Db 78115 GTGGTGGTGGGAGGCGCGGCGCTCCATGGCTCTGCGGGGTGCGCGAGGCTCTGAG 78174

QY 323 GC 324
Db 78175 CC 78176
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```
RESULT 13
US-11-075-185-34
; Sequence 34, Application US/11075185
; Publication No. US20050266434A1
; GENERAL INFORMATION:
; APPLICANT: REEVES, CHRISTOPHER D
; APPLICANT: JULIEN, BRYAN
; APPLICANT: REID, RALPH
; TITLE OF INVENTION: BIOSYNTHETIC GENE CLUSTER FOR AMBRUTICINS
; FILE REFERENCE: 010099.03
; CURRENT APPLICATION NUMBER: US/11/075,185
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US 60/551,103
; PRIOR FILING DATE: 2004-03-08
; PRIOR APPLICATION NUMBER: US 60/568,290
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 34
; LENGTH: 11070
; TYPE: DNA
; ORGANISM: Sorangium cellulosum
US-11-075-185-34

Query Match      10.0%; Score 34.4; DB 8; Length 11070;
Best Local Similarity 48.5%; Pred. No. 4.5;
Matches 95; Conservative 0; Mismatches 101; Indels 0; Gaps 0;

QY 147 GCGCAGAGACTTCCGAGCGGTGCGAACCTCGCATGAGGCGCCACCCATCCCGAGGCGCG 206
Db 1375 GCGCGCGGCTCGGAAGCGCCGCGCAACGCGCGGTGCGCGCGCGCGCGCGCGCTTG 1434

QY 207 CCGAACCGAGGCGAGTCTCGGGCTCAGCCGCGGTACCTTGGCCCTTATATGGGATGA 266
Db 1435 CCGGCGACGCTGCGCGCTCTCTGTGCGGGCGGAGACGAGGCGCGCTCAGGCGCGAAGCC 1494

QY 267 GGGCTGCGGGTGGGCGAGGTGCTCTCTGTCGCCGCGCGCTCTCGCCCGTCTCGTGGGCGCC 326
Db 1495 GGGCAGTGGCGCGGTGCTCGCGCGCACCGGAGGCTCCTTGGGCGGACGTGGTGAC 1554

QY 327 AAATGACCCCGCGCGC 342
Db 1555 ACGCGCGCGCGCGCGC 1570

RESULT 14
US-11-075-185-1
; Sequence 1, Application US/11075185
; Publication No. US20050266434A1
; GENERAL INFORMATION:
; APPLICANT: REEVES, CHRISTOPHER D
; APPLICANT: JULIEN, BRYAN
; APPLICANT: REID, RALPH
; TITLE OF INVENTION: BIOSYNTHETIC GENE CLUSTER FOR AMBRUTICINS
; FILE REFERENCE: 010099.03
; CURRENT APPLICATION NUMBER: US/11/075,185
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US 60/551,103
; PRIOR FILING DATE: 2004-03-08
; PRIOR APPLICATION NUMBER: US 60/568,290
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1
; LENGTH: 78869
; TYPE: DNA
; ORGANISM: Sorangium cellulosum
US-11-075-185-1

Query Match      10.0%; Score 34.4; DB 8; Length 78869;
Best Local Similarity 48.5%; Pred. No. 8;
Matches 95; Conservative 0; Mismatches 101; Indels 0; Gaps 0;
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(without alignments)
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Delop 6.0 , Delext 7.0

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-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	637	99.8	115	2	US-08-836-075A-50
2	609	95.5	191	1	US-08-290-665A-187
3	609	95.5	191	1	US-08-290-665A-188
4	609	95.5	191	1	US-08-290-665A-190
5	609	95.5	191	4	PCT-US95-10398-187
6	609	95.5	191	4	PCT-US95-10398-188
7	609	95.5	191	4	PCT-US95-10398-189
8	608	95.3	191	1	US-08-290-665A-189
9	608	95.3	191	4	PCT-US95-10398-189
10	603	94.5	191	1	US-08-290-665A-192
11	603	94.5	191	1	US-08-290-665A-193
12	603	94.5	191	1	US-08-290-665A-195

13	603	94.5	191	4	PCT-US95-10398-192	Sequence 192, App
14	603	94.5	191	4	PCT-US95-10398-193	Sequence 193, App
15	603	94.5	191	4	PCT-US95-10398-195	Sequence 195, App
16	602	94.4	120	2	US-08-931-855B-14	Sequence 14, Appl
17	600	94.0	319	2	US-08-836-075A-12	Sequence 12, Appl
18	600	94.0	319	2	US-08-836-075A-12	Sequence 12, Appl
19	600	94.0	319	2	US-08-836-075A-12	Sequence 12, Appl
20	599	93.9	191	1	US-08-290-665A-196	Sequence 196, App
21	599	93.9	191	1	US-08-290-665A-196	Sequence 196, App
22	598	93.7	450	2	US-08-635-886C-181	Sequence 181, App
23	598	93.7	450	2	US-08-635-886C-181	Sequence 181, App
24	598	93.7	2894	1	US-08-974-690C-181	Sequence 23, Appl
25	598	93.7	2894	1	US-08-974-690C-181	Sequence 23, Appl
26	598	93.7	2894	2	US-08-467-902A-23	Sequence 23, Appl
27	598	93.7	2894	2	US-08-467-902A-23	Sequence 23, Appl
28	598	93.7	2894	2	US-09-941-611-23	Sequence 23, Appl
29	598	93.7	2894	2	US-10-044-995-23	Sequence 23, Appl
30	597	93.6	120	2	US-08-931-855B-10	Sequence 10, Appl
31	597	93.6	182	2	US-10-104-966-2	Sequence 2, Appl
32	597	93.6	182	2	US-09-929-955-2	Sequence 2, Appl
33	597	93.6	191	1	US-08-290-665A-156	Sequence 156, App
34	597	93.6	191	1	US-08-290-665A-157	Sequence 157, App
35	597	93.6	191	1	US-08-290-665A-158	Sequence 158, App
36	597	93.6	191	1	US-08-290-665A-159	Sequence 159, App
37	597	93.6	191	1	US-08-290-665A-160	Sequence 160, App
38	597	93.6	191	1	US-08-290-665A-191	Sequence 191, App
39	597	93.6	191	1	US-08-290-665A-197	Sequence 197, App
40	597	93.6	191	2	US-08-380-160-3	Sequence 3, Appl
41	597	93.6	191	4	PCT-US95-10398-156	Sequence 156, App
42	597	93.6	191	4	PCT-US95-10398-157	Sequence 157, App
43	597	93.6	191	4	PCT-US95-10398-158	Sequence 158, App
44	597	93.6	191	4	PCT-US95-10398-159	Sequence 159, App
45	597	93.6	191	4	PCT-US95-10398-160	Sequence 160, App

ALIGNMENTS

RESULT 1
US-08-836-075A-50
; Sequence 50, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; TITLE OF INVENTION: AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:

```
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 50:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-836-075A-50

Alignment Scores:
Pred. No.: 4 09e-53 Length: 115
Score: 637.00 Matches: 115
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 99.84% Indels: 0
DB: 2 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-836-075A-50 (1-115)
QY 1 ATGAGCACCTTCTTAACCAAGAAAAACCAAAAGAAAAACCAACCCGCGCCACAG 60
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn***ArgProGln 20
QY 61 GACCTTAAGTTCCACGGCGGCGTCAGATCCTTGGTGAGTTTACGTCTACCAACGACAG 120
Db 21 AspValLysPheProGlyGlyGlyGlnIleValGlyGlyValTyrValLeuProArg 40
QY 121 GGCCCCCAGTTGGGTGCGTCAGTCGCGAAGACTTCCGAGCGGTCCGCAACCTCGCAGT 180
Db 41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGlnProArg 60
QY 181 AGCGGCCAACCCATCCCGAGCGCGCGAACCAGGCGAGTCTTGGGCTTCAGCCCGGG 240
Db 61 ArgArgGlnProLysProArgAlaArgArgThrGluGlyArgSerTrpAlaGlnProGly 80
QY 241 TACCTTGGCCCCCTATATGGGAATAGAGGCTGCGGGTGGGCGAGGCTCTCTCCCG 300
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 301 CGCGGCTCTCGCCGTCGTGGGGCCCAATACACCCCGCGCCAG 345
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 2
US-08-290-665A-187
; Sequence 187, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994

; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 187:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: hom sapiens
; INDIVIDUAL ISOLATE: HK10
US-08-290-665A-187

Alignment Scores:
Pred. No.: 2.15e-50 Length: 191
Score: 609.00 Matches: 108
Percent Similarity: 96.52% Conservative: 3
Best Local Similarity: 93.91% Mismatches: 4
Query Match: 95.45% Indels: 0
DB: 1 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-290-665A-187 (1-191)
QY 1 ATGAGCACCTTCTTAACCAAGAAAAACCAAAAGAAAAACCAACCCGCGCCACAG 60
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrLysArgProGln 20
QY 61 GACCTTAAGTTCCACGGCGGCGTCAGATCCTTGGTGAGTTTACGTCTACCAACGACAG 120
Db 21 AspValLysPheProGlyGlyGlyGlnIleValGlyGlyValTyrValLeuProArg 40
QY 121 GGCCCCCAGTTGGGTGCGTCAGTCGCGAAGACTTCCGAGCGGTCCGCAACCTCGCAGT 180
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArg 60
QY 181 AGCGGCCAACCCATCCCGAGCGCGCGAACCAGGCGAGTCTTGGGCTTCAGCCCGGG 240
Db 61 ArgArgGlnProLysProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80
QY 241 TACCTTGGCCCCCTATATGGGAATAGAGGCTGCGGGTGGGCGAGGCTCTCTCCCG 300
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 301 CGCGGCTCTCGCCGTCGTGGGGCCCAATACACCCCGCGCCAG 345
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 3
US-08-290-665A-188
; Sequence 188, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
```

```

;
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 188:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: S52
; US-08-290-665A-188

Alignment Scores:
Pred. No.: 2,15e-50 Length: 191
Score: 609.00 Matches: 108
Percent Similarity: 96.52% Conservative: 3
Best Local Similarity: 93.91% Mismatches: 4
Query Match: 95.45% Indels: 0
DB: 1 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-290-665A-188 (1-191)
QY 1 ATGAGCACATCTCTAAACCAACAAAGAAAAACCAAAAGAAACCAACCAACCCGCGCACAG 60
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrLysArgProGln 20
QY 61 GACGTTAAGTTCCTCCAGCGCGGTGCGATCGTGTGGAGTTTACGTGTCTACACGCGAG 120
Db 21 AspValLysPheProGlyGlyGlnIleValGlyValTyValLeuProArgArg 40
QY 121 GCGCCCAACCATCCAGCGCGCGCGCAACCGAGCGGTCTCGCAACTCGCAGT 180
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 181 AGCGCCCAACCATCCAGCGCGCGCGCAACCGAGCGGTCTCGCAGTCTCGCAGT 240
Db 61 ArgArgGlnProIleProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80
QY 241 TACCTTGGCCCTATATATGGGAATGAGGCTCGCGGTGGCGAGGTGGCTCTGTCCTCCG 300
Db 81 TyrProTrpProLeuTyGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 301 CGCGGCTCTCGCCCGTCTGTTGGGGCCCAATGACCCCGCGCGAGG 345
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 4
US-08-290-665A-190
; Sequence 190, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R. H. AND
; APPLICANT: PURCELL, N. H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

;
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 190:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: DK12
; US-08-290-665A-190

Alignment Scores:
Pred. No.: 2,15e-50 Length: 191
Score: 609.00 Matches: 108
Percent Similarity: 96.52% Conservative: 3
Best Local Similarity: 93.91% Mismatches: 4
Query Match: 95.45% Indels: 0
DB: 1 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-290-665A-190 (1-191)
QY 1 ATGAGCACATCTCTAAACCAACAAAGAAAAACCAAAAGAAACCAACCAACCCGCGCACAG 60
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrLysArgProGln 20
QY 61 GACGTTAAGTTCCTCCAGCGCGGTGCGATCGTGTGGAGTTTACGTGTCTACACGCGAG 120
Db 21 AspValLysPheProGlyGlyGlnIleValGlyValTyValLeuProArgArg 40
QY 121 GCGCCCAACCATCCAGCGCGCGCGCAACCGAGCGGTCTCGCAACTCGCAGT 180
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 181 AGCGCCCAACCATCCAGCGCGCGCGCAACCGAGCGGTCTCGCAGTCTCGCAGT 240
Db 61 ArgArgGlnProIleProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80
QY 241 TACCTTGGCCCTATATATGGGAATGAGGCTCGCGGTGGCGAGGTGGCTCTGTCCTCCG 300
Db 81 TyrProTrpProLeuTyGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 301 CGCGGCTCTCGCCCGTCTGTTGGGGCCCAATGACCCCGCGCGAGG 345
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 5
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PCT-US95-10398-187
; Sequence 187, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 187:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: HK10
PCT-US95-10398-187

Alignment Scores:
Pred. No.: 2.15e-50 Length: 191
Score: 609.00 Matches: 108
Percent Similarity: 96.52% Conservative: 3
Best Local Similarity: 93.91% Mismatches: 4
Query Match: 95.45% Indels: 0
DB: 4 Gaps: 0

US-09-873-224B-147 (1-346) x PCT-US95-10398-187 (1-191)

Qy 1 ATGACGACACTTCCTTAACCAAGAAAAACCAACCAACCAACCCGCGCAG 60
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrIleArgArgProGln 20

Qy 61 GACGTTAAGTCCAGCGCGCGGTGAGATCCTTGGTGGAGTTTACGTGCTACACGAGG 120
Db 21 AspValLysPheProGlyGlyGlyGlnIleValGlyGlyValTyValLeuProArgArg 40

Qy 121 GGGCCCCAGTTGGGTGGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCG 180
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60

PCT-US95-10398-188
; Sequence 188, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 188:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: S52
; INDIVIDUAL ISOLATE: S52
PCT-US95-10398-188

Alignment Scores:
Pred. No.: 2.15e-50 Length: 191
Score: 609.00 Matches: 108
Percent Similarity: 96.52% Conservative: 3
Best Local Similarity: 93.91% Mismatches: 4
Query Match: 95.45% Indels: 0
DB: 4 Gaps: 0

Qy 181 AGGCGCCCAACCCATCCCGAGCGCGCGCAACCGAGGCGAGTCTCTGGGCTCAGCCCGG 240
Db 61 ArgArgGlnProLysProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80

Qy 241 TACCTTGGCCCTATATGGAAATGAGGCTCGCGGTGGGCGGAGGTGGCTCTGTCTCCCG 300
Db 81 TyrProTrpProLeuTyGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100

Qy 301 CGCGGCTCTCGCCGCTGCTGGGCGCCAAATGACCCCGCGCGCAGG 345
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

RESULT 6
PCT-US95-10398-188
; Sequence 188, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 188:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: S52
; INDIVIDUAL ISOLATE: S52
PCT-US95-10398-188

Alignment Scores:
Pred. No.: 2.15e-50 Length: 191
Score: 609.00 Matches: 108
Percent Similarity: 96.52% Conservative: 3
Best Local Similarity: 93.91% Mismatches: 4
Query Match: 95.45% Indels: 0
DB: 4 Gaps: 0

```



```
;
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 189:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORGANISM: hominids
; INDIVIDUAL ISOLATE: S2
US-08-290-665A-189

Alignment Scores:
Pred. No.: 2,68e-50 Length: 191
Score: 608.00 Matches: 107
Percent Similarity: 96.52% Conservative: 4
Best Local Similarity: 93.04% Mismatches: 4
Query Match: 95.30% Indels: 0
DB: 1 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-290-665A-189 (1-191)
QY 1 ATGAGCACATCTCTTAACCAAGAAAAACCAAGAAAAACCAACCCGCGCCACAG 60
DB 1 MetSerThrLeuProLysProGlnArgLysThrLysArgSerThrLeuArgProGln 20
QY 61 GACGTTAAGTTCCAGCGCGGTGCGTGCAGATCTTGGTGGAGTTACGCTACCGCAGG 120
DB 21 AspIleLysPheProGlyGlyGlnIleValGlyGlyValTyrValLeuProArg 40
QY 121 GCGCCCAAGTTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 180
DB 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArg 60
QY 181 AGGCGCCCAACCCATCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 240
DB 61 ArgArgGlnProLeuProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnPro 80
QY 241 TACCTTGGCCCTATATGGAATGAGGCTGCGGTGGCGAGGTGGTGGTGGTGGTGGTGG 300
DB 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSer 100
QY 301 CGCGGCTCTCCCGTGGTGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCG 345
DB 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 9
PCT-US95-10398-189
; Sequence 189, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
```

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;
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 189:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORGANISM: hominids
; INDIVIDUAL ISOLATE: S2
PCT-US95-10398-189

Alignment Scores:
Pred. No.: 2,68e-50 Length: 191
Score: 608.00 Matches: 107
Percent Similarity: 96.52% Conservative: 4
Best Local Similarity: 93.04% Mismatches: 4
Query Match: 95.30% Indels: 0
DB: 1 Gaps: 0

US-09-873-224B-147 (1-346) x PCT-US95-10398-189 (1-191)
QY 1 ATGAGCACATCTCTTAACCAAGAAAAACCAAGAAAAACCAACCCGCGCCACAG 60
DB 1 MetSerThrLeuProLysProGlnArgLysThrLysArgSerThrLeuArgProGln 20
QY 61 GACGTTAAGTTCCAGCGCGGTGCGTGCAGATCTTGGTGGAGTTACGCTACCGCAGG 120
DB 21 AspIleLysPheProGlyGlyGlnIleValGlyGlyValTyrValLeuProArg 40
QY 121 GCGCCCAAGTTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 180
DB 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArg 60
QY 181 AGGCGCCCAACCCATCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 240
DB 61 ArgArgGlnProLeuProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnPro 80
QY 241 TACCTTGGCCCTATATGGAATGAGGCTGCGGTGGCGAGGTGGTGGTGGTGGTGGTGG 300
DB 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSer 100
QY 301 CGCGGCTCTCCCGTGGTGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCG 345
DB 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 10
US-08-290-665A-192
; Sequence 192, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
```

```

; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 192:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z8
US-08-290-665A-192

Alignment Scores:
Pred. No.: 8,09e-50 Length: 191
Score: 603.00 Matches: 106
Percent Similarity: 95.65% Conservative: 4
Best Local Similarity: 92.17% Mismatches: 5
Query Match: 94.51% Indels: 0
DB: 1 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-290-665A-192 (1-191)
QY 1 ATGAGCACACTTCTTAACCAACCAAGAAAAACCAAGAAACCAACCCGCGCACAG 60
Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProMet 20
QY 61 GACGTTAAGTTCCAGCGCGCGGTCCAGATCGTTGGTGGAGTTTACGTGTACACGCAGG 120
Db 21 AspValLysPheProGlyGlyGlyGlnIleValGlyValTyrlleuLeuProArg 40
QY 121 GCGCCCAACCCATCCCGAGCGCGCGCAACCGAGGCGAGTCTGGCTCGCACTCGCAGT 180
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 181 AGCGCCCAACCCATCCCGAGCGCGCGCAACCGAGGCGAGTCTGGCTCGCACTCGCAGT 240
Db 61 ArgA-gGlnProIleProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80
QY 241 TACCTTGGCCCTATATCGGAATGAGGCTCGCGGTGGCGAGGTCTGTCTCCCG 300
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 301 CGCGCTCTCGCCCGTCTGGTGGGCGCCCAATGATCCCCCGCGCAGG 345
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115
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RESULT 11
US-08-290-665A-193
; Sequence 193, Application US/08290665A
; Patent No. 582852
; GENERAL INFORMATION:
; APPLICANT: BORK, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 193:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z1
US-08-290-665A-193

Alignment Scores:
Pred. No.: 8,09e-50 Length: 191
Score: 603.00 Matches: 106
Percent Similarity: 95.65% Conservative: 4
Best Local Similarity: 92.17% Mismatches: 5
Query Match: 94.51% Indels: 0
DB: 1 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-290-665A-193 (1-191)
QY 1 ATGAGCACACTTCTTAACCAACCAAGAAAAACCAAGAAACCAACCCGCGCACAG 60
Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProMet 20
QY 61 GACGTTAAGTTCCAGCGCGCGGTCCAGATCGTTGGTGGAGTTTACGTGTACACGCAGG 120
Db 21 AspValLysPheProGlyGlyGlyGlnIleValGlyValTyrlleuLeuProArg 40
QY 121 GCGCCCAACCCATCCCGAGCGCGCGCAACCGAGGCGAGTCTGGCTCGCACTCGCAGT 180
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 181 AGCGCCCAACCCATCCCGAGCGCGCGCAACCGAGGCGAGTCTGGCTCGCACTCGCAGT 240
Db 61 ArgA-gGlnProIleProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80
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QY 241 TACCTTGGCCCTATATGGAATGAGGGCTGCGGGTGGGAGGGTGTCTCTGTCCCG 300
Db 81 TyrProTTPProLeuTyrGlyAsnGluGlyCysGlyTTPalaGlyTTPLeuLeuSerPro 100
QY 301 CGCGGCTCTCGCCGCTGCTGGGGCCAAATGACCCCGCGCAGG 345
Db 101 ArgGlySerArgProSerTTPGlyProAsnAspProArgA-gArg 115

RESULT 12
US-08-290-665A-195
; Sequence 195, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290.665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 195:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z6
US-08-290-665A-195

Alignment Scores:
Pred. No.: 8.09e-50 Length: 191
Score: 603.00 Matches: 106
Percent Similarity: 95.65% Conservative: 4
Best Local Similarity: 92.17% Mismatches: 5
Query Match: 94.51% Indels: 0
DB: 1 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-290-665A-195 (1-191)

QY 1 ATGAGCACATTCCTTAACCAAGAAAAACCAAGAAAAACCAACCCGCGCACAG 60
Db 1 MetSerThrAsnProLeuProGlnArgLysThrLysArgAsnThrAsnArgProMet 20
QY 61 GACCTTAAGTTCCAGCGGGGTGAGATCCTTGGTGGAGTTAGTGCTACACGAGG 120
Pred. No.: 8.09e-50 Length: 191

Db 21 AspVallLysPheProGlyGlyGlyGlnIleValGlyGlyValTyrLeuLeuProArgArg 40
QY 121 GGCCCCAGTTGGGTGTGTCGTCAGTGCAGAACTTCCGAGCGGTCCGAACCTCGCAGT 180
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 181 AGCGCCCAACCCATCCCGGCGCGCGCAACCGAGGCGAGTCTGTGGCTCAGCCCGG 240
Db 61 ArgArgGlnProIleProLeuAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80
QY 241 TACCTTGGCCCTATATGGAATGAGGGCTGCGGGTGGGAGGGTGTCTCTGTCCCG 300
Db 81 TyrProTTPProLeuTyrGlyAsnGluGlyCysGlyTTPalaGlyTTPLeuLeuSerPro 100
QY 301 CGCGGCTCTCGCCGCTGCTGGGGCCAAATGACCCCGCGCAGG 345
Db 101 ArgGlySerArgProSerTTPGlyProAsnAspProArgA-gArg 115

RESULT 13
PCT-US95-10398-192
; Sequence 192, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 192:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z8
PCT-US95-10398-192

Alignment Scores:
Pred. No.: 8.09e-50 Length: 191


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;
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 195:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z6
;
PCT-US95-10398-195

Alignment Scores:
Pred. No.:      8,09e-50      Length:      191
Score:          603.00        Matches:    106
Percent Similarity: 95.65%    Conservative: 4
Best Local Similarity: 92.17%  Mismatches:  5
Query Match:      94.51%      Indels:     0
DB:               4          Gaps:        0

US-09-873-224B-147 (1-346) x PCT-US95-10398-195 (1-191)

Qy 1 ATGAGCACACTTCCTAAACCCACCAAGAAAACCAACCAACACCAACCCGCGCCACAG 60
Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProMet 20

Qy 61 GACGTTAAGTTCCACAGCGCGGTCAGATCGTTGGTGAGTTTACGTCTACACGCGCAG 120
Db 21 AspValLysPheProGlyGlyGlnIleValGlyGlyValTyrLeuLeuProArgarg 40

Qy 121 GCGCCCCAGTTGGGTGTCGTGTCAGTGCAGACTTCCGAGCGGTCCGAACCTCGCAGT 180
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60

Qy 181 AGCGCCCAACCATCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 240
Db 61 ArgArgGlnProIleProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80

Qy 241 TACCTTGGCCCTATATGGGAATGAGGGCTGCGGGTGGCGAGGGTGGCTCTGTCCCCG 300
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100

Qy 301 CGCGGCTCTCGCCGCTCGTGGGGCCAAATACCCCGCGCGCAG 345
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115
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Search completed: January 28, 2006, 04:37:35
Job time : 23 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2006 CompuGen Ltd.

OM nucleic - protein search, using frame_plus_n2p model

Run on: January 28, 2006, 04:36:05 ; Search time 59.5 Seconds
(without alignments)
4859.460 Million cell updates/sec

Title: US-09-873-224B-147
Perfect score: 638
Sequence: 1 atgagcacactctctaaacc.....aatgaccccgccgagga 346

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Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 3735138

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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-DE=Published Applications AA Main -QFMT=fastan -SUFFIX=n2p.rapbm
-MINMATCH=0.1 -LOOPEL=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=-1
-MATRIX=blosum62 -TRANS=human40.cdi -LIST=45 -DOCALIGN=200 -THR SCORE=pct
-THR MAX=100 -THR MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT=ptc -NORM=ext
-HEAPSIZ=500 -MINLEN=0 -MAXLEN=2000000000
-USER=US09873224 @CGN 1.1.202 @runat_27012006_154124_13602 -NCPU=6 -ICPU=3
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-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Published Applications AA Main:*
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3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep.*
4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	637	99.8	115	3	US-09-899-046-148
3	637	99.8	115	3	US-09-878-281-148
4	602	94.4	120	4	US-10-677-956-14
5	602	94.4	189	4	US-10-450-649-9
6	600	94.0	130	4	US-10-268-569-19
7	600	94.0	319	3	US-09-851-138-12
8	600	94.0	319	4	US-10-651-165-199
9	598	93.7	450	4	US-10-651-165-181
10	598	93.7	2894	3	US-09-941-611-23
11	598	93.7	2894	4	US-10-044-995-23

12	598	93.7	2894	5	US-10-822-871-23	Sequence 23, Appl
13	597	93.6	120	4	US-10-677-956-10	Sequence 10, Appl
14	597	93.6	151	4	US-10-292-129-14	Sequence 14, Appl
15	597	93.6	182	3	US-09-929-955-2	Sequence 2, Appli
16	597	93.6	182	4	US-10-104-966-2	Sequence 2, Appli
17	597	93.6	182	4	US-10-719-619-2	Sequence 2, Appli
18	597	93.6	182	5	US-10-817-591-2	Sequence 2, Appli
19	597	93.6	235	4	US-10-365-620-58	Sequence 58, Appl
20	597	93.6	235	5	US-10-912-969-60	Sequence 60, Appl
21	597	93.6	249	4	US-10-365-620-54	Sequence 54, Appl
22	597	93.6	249	5	US-10-912-969-56	Sequence 56, Appl
23	597	93.6	319	4	US-10-651-165-217	Sequence 217, App
24	597	93.6	450	4	US-10-651-165-180	Sequence 179, App
25	597	93.6	450	4	US-10-365-620-60	Sequence 60, Appl
26	597	93.6	459	5	US-10-912-969-62	Sequence 62, Appl
27	597	93.6	459	5	US-10-913-171-41	Sequence 41, Appl
28	597	93.6	473	4	US-10-365-620-56	Sequence 56, Appl
29	597	93.6	473	4	US-10-912-969-58	Sequence 58, Appl
30	597	93.6	473	5	US-10-913-171-39	Sequence 39, Appl
31	597	93.6	1892	5	US-10-612-884-6	Sequence 6, Appli
32	597	93.6	3011	3	US-09-742-659-4	Sequence 4, Appli
33	597	93.6	3011	3	US-09-952-572-9	Sequence 9, Appli
34	597	93.6	3011	3	US-09-929-955-1	Sequence 1, Appli
35	597	93.6	3011	3	US-09-747-419-20	Sequence 20, Appl
36	597	93.6	3011	3	US-10-104-966-1	Sequence 1, Appli
37	597	93.6	3011	4	US-10-259-275-20	Sequence 20, Appl
38	597	93.6	3011	4	US-10-184-150-3	Sequence 3, Appli
39	597	93.6	3011	4	US-10-189-359-14	Sequence 14, Appl
40	597	93.6	3011	4	US-10-296-734-406	Sequence 406, App
41	597	93.6	3011	4	US-10-719-619-1	Sequence 1, Appli
42	597	93.6	3011	4	US-10-817-591-1	Sequence 1, Appli
43	597	93.6	3011	4	US-10-817-591-1	Sequence 1, Appli
44	597	93.6	3011	4	US-10-817-591-1	Sequence 1, Appli
45	597	93.6	3011	4	US-10-817-591-1	Sequence 1, Appli

ALIGNMENTS

RESULT 1
US-09-851-138-50
; Sequence 50, Application US/09851138
; Publication No. US20020183508A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; STUDYER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/851,138
; FILING DATE: 09-May-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/836,075
; FILING DATE: <Unknown>
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.

Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn**ArgProGln 20
QY 61 GAGGTTAAGTTCACAGCGCGGTGAGATCGTTGGTGGAGTTTACGTGCTTACCACGAGG 120
Db 21 AspValLysPheProGlyGlyGlnIleValGlyValTyValLeuProArgArg 40
QY 121 GCGCCCAAGTGGTGTGCGTGCAGTGCAGAGCTTCCGAGCGGTGCAACCTCCAGT 180
Db 41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGlnProArgSer 60
QY 181 AGCGCCCAACCCATCCCGAGCGCGCCGCAACGAGGCGAGTCTTGGGCTCAGCCCGG 240
Db 61 ArgArgGlnProLeuProArgAlaArgGlnThrGluGlyArgSerTrpAlaGlnProGly 80
QY 241 TACCTTGGCCCTATATGGGAATGAGGCTGCGGTGGCGAGGCGGTCTCTGTCTCCCG 300
Db 81 TyrProTrpProLeuTyGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 301 CGCGGCTCTCGCCGCTGCTGGGGCCCAATGACCCCGCGCAGG 345
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 4

US-10-677-956-14
; Sequence 14, Application US/10677956
; Publication No. US20040214163A1

GENERAL INFORMATION:

APPLICANT: ZEBEDEE, SUZANNE
INCHAUSPE, GENEVIEVE
NASOFF, MARC S.
PRINCE, ALFRED M.
HELTING, TORSTEN B.
DREVIN, HAKAN
NUNN, MICHAEL F.

TITLE OF INVENTION: METHODS AND SYSTEMS FOR PRODUCING RECOMBINANT VIRAL ANTIGENS

NUMBER OF SEQUENCES: 29

CORRESPONDENCE ADDRESS:

ADDRESSER: James P. Hillman
STREET: 45010 Pawnee Drive
CITY: Fremont
STATE: CA
COUNTRY: USA
ZIP: 94539

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy Disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Word Perfect 5.0 Dos Txt
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/677,956
FILING DATE: 01-Oct-2003
CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/931,855B
FILING DATE: Sep 16, 1997
APPLICATION NUMBER: US08/563,733
FILING DATE: 8-NOV-1995
APPLICATION NUMBER: US08/049,531
FILING DATE: 20-APR-1993
APPLICATION NUMBER: US07/344,237
FILING DATE: 26-APR-1989
APPLICATION NUMBER: US07/191,229
FILING DATE: 06-MAY-1988
APPLICATION NUMBER: US07/206,499
FILING DATE: 13-JUN-1988
APPLICATION NUMBER: US07/258,016
FILING DATE: 14-OCT-1988
APPLICATION NUMBER: US08/272,271
FILING DATE: 8-JUL-1994
APPLICATION NUMBER: US07/616,369
FILING DATE: 21-NOV-1990

APPLICATION NUMBER: US07/573,643
FILING DATE: 27-AUG-1990
ATTORNEY/AGENT INFORMATION:
NAME: James P. Hillman Esq.
REGISTRATION NUMBER: 29748
REFERENCE/DOCKET NUMBER: 55467/69
TELECOMMUNICATION INFORMATION:
TELEPHONE: (510) 651 3991
TELEFAX: (510) 651 5991
TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 120 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 14:
US-10-677-956-14

Alignment Scores:

Pred. No.: 6.37e-44 Length: 120
Score: 602.00 Matches: 106
Percent Similarity: 95.65% Conservative: 4
Best Local Similarity: 92.17% Mismatches: 5
Query Match: 94.36% Indels: 0
DB: 4 Gaps: 0

US-09-873-224B-147 (1-346) x US-10-677-956-14 (1-120)

QY 1 ATGAGCACACTTCCTTAACCAAGAAAGAAACCAACCAACCCGCGCACAG 60
Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 20
QY 61 GAGGTTAAGTTCACAGCGCGGTGAGATCGTTGGTGGAGTTTACGTGCTTACCACGAG 120
Db 21 AspValLysPheProGlyGlyGlnIleValGlyValTyValLeuLeuProArgArg 40
QY 121 GCGCCCAAGTGGTGTGCGTGCAGTGCAGAGCTTCCGAGCGGTGCAACCTCCAGT 180
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 181 AGCGCCCAACCCATCCCGAGCGCGCCGCAACGAGGCGAGTCTTGGGCTCAGCCCGG 240
Db 61 ArgArgGlnProLeuProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80
QY 241 TACCTTGGCCCTATATGGGAATGAGGCTGCGGTGGCGAGGCGGTCTCTGTCTCCCG 300
Db 81 TyrProTrpProLeuTyGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 301 CGCGGCTCTCGCCGCTGCTGGGGCCCAATGACCCCGCGCAGG 345
Db 101 ArgGlySerArgProSerTrpGlyProThrAspProArgArg 115

RESULT 5

US-10-450-649-9

; Sequence 9, Application US/10450649
; Publication No. US20040052818A1
; GENERAL INFORMATION:
; APPLICANT: Heinz, Franz X.
; APPLICANT: Mandl, Christian
; TITLE OF INVENTION: ATTENUATED LIVE VACCINE
; FILE REFERENCE: U 014666-0
; CURRENT APPLICATION NUMBER: US/10/450,649
; CURRENT FILING DATE: 2003-06-16
; PRIOR APPLICATION NUMBER: PCT/AT02/00046
; PRIOR FILING DATE: 2002-02-11
; PRIOR APPLICATION NUMBER: A 272/2001 AT
; PRIOR FILING DATE: 2001-02-21
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 189
; TYPE: PRT

Alignment Scores:			
Pred. No.:	1.01e-43	Length:	319
Score:	600.00	Matches:	106
Percent Similarity:	94.78%	Conservative:	3
Best Local Similarity:	92.17%	Mismatches:	6
Query Match:	94.04%	Indels:	0
DB:	3	Gaps:	0

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Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 20
QY 61 GAGCTTAAGTCCAGCGCGGTGAGATCGTTGGTGGAGTTTACGTGTACACGCGAG 120
Db 21 AspValLysPheProGlyGlyGlnIleValGlyValTyrLeuLeuProArgArg 40
QY 121 GCGCCCGCTGCGGTGCGTGCAGTGCAGACACTTCCGAGCGGTCCGCAACTCGCAGT 180
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 181 AGCGCCCAACCCATCCAGCGCGCCGCAACCGAGGCGAGTCTCTGGGCTCAGCCCGG 240
Db 61 ArgArgGlnProIleProLysAlaArgArgProGluGlyArgSerTrpAlaGlnProGly 80
QY 241 TACCTTGGCCCTATATGGGATGAGGCTGCGGTGGCGAGGTGGCTCTGTCTCCCG 300
Db 81 TyrProTrpProLeuTyrAlaAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 301 CGCGGCTCTCGCGCGTCTGCGGCGCCCAATGACCCCGCGCGAGG 345
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115
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RESULT 8

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US-10-651-165-199
; Sequence 199, Application US/10651165
; Publication No. US2004004787A1
; GENERAL INFORMATION:
; APPLICANT: LEROUX-ROELS, Geert
; APPLICANT: DELEYS, Robert
; APPLICANT: MAERTENS, Geert
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
; TITLE OF INVENTION: VIRUS
; FILE REFERENCE: 2551-94
; CURRENT APPLICATION NUMBER: US/10/651,165
; PRIOR FILING DATE: 2003-09-02
; PRIOR APPLICATION NUMBER: US/08/974,690C
; PRIOR FILING DATE: 1997-11-19
; PRIOR APPLICATION NUMBER: PCT/EP94/03555
; PRIOR FILING DATE: 1994-10-28
; PRIOR APPLICATION NUMBER: EP 93402718.6
; PRIOR FILING DATE: 1993-11-04
; NUMBER OF SEQ ID NOS: 286
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 199
; LENGTH: 319
; TYPE: PRT
; ORGANISM: hepatitis C virus
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (152)..(152)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (159)..(159)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (163)..(163)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (164)..(164)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (165)..(165)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
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; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (167)..(167)
; OTHER INFORMATION: Xaa is any amino acid
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; LOCATION: (170)..(170)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (174)..(174)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
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; LOCATION: (175)..(175)
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; LOCATION: (180)..(180)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (226)..(226)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (317)..(317)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (318)..(318)
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (319)..(319)
; OTHER INFORMATION: Xaa is any amino acid
US-10-651-165-199
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Alignment Scores:

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Pred. No.: 1,01e-43 Length: 319
Score: 600.00 Matches: 106
Percent Similarity: 94.78% Conservative: 3
Best Local Similarity: 92.17% Mismatches: 6
Query Match: 94.04% Indels: 0
DB: 4 Gaps: 0
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US-09-873-224B-147 (1-346) x US-10-651-165-199 (1-319)

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QY 1 ATGAGCACACTTCTTAACACCAAGAAACCAAAAGAAACCAACCAACCCGCGCACAG 60
Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 20
QY 61 GAGCTTAAGTCCAGCGCGGTGAGATCGTTGGTGGAGTTTACGTGTACACGCGAG 120
Db 21 AspValLysPheProGlyGlyGlnIleValGlyGlyValTyrLeuLeuProArgArg 40
QY 121 GCGCCCGCTGCGGTGCGTGCAGTGCAGACACTTCCGAGCGGTCCGCAACTCGCAGT 180
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 181 AGCGCCCAACCCATCCAGCGCGCCGCAACCGAGGCGAGTCTCTGGGCTCAGCCCGG 240
Db 61 ArgArgGlnProIleProLysAlaArgArgProGluGlyArgSerTrpAlaGlnProGly 80
QY 241 TACCTTGGCCCTATATGGGATGAGGCTGCGGTGGCGAGGTGGCTCTGTCTCCCG 300
Db 81 TyrProTrpProLeuTyrAlaAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 301 CGCGGCTCTCGCGCGTCTGCGGCGCCCAATGACCCCGCGCGAGG 345
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115
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Db 101 ArgGlySerArgProSerTrpGlyProThrAspProArgArg 115
RESULT 11
US-10-044-995-23
; Sequence 23, Application US/10044995
; Publication No. US20030049685A1
; GENERAL INFORMATION:
; APPLICANT: DELEYS, ROBERT J
; POLLET, DIRK
; MAERTENS, GEERT
; VAN HEUVERSWIN, HUGO
; TITLE OF INVENTION: SYNTHETIC ANTIGENS FOR THE DETECTION OF
; ANTIBODIES TO HEPATITIS C VIRUS
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHYE P.C.
; STREET: 1100 NORTH GLEBE ROAD
; CITY: ARLINGTON
; STATE: VA
; COUNTRY: USA
; ZIP: 22201
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/044,995
; FILING DATE: 15-Jan-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/391,671
; FILING DATE: <Unknown>
; APPLICATION NUMBER: US 07/920,286
; FILING DATE: 14-OCT-1992
; APPLICATION NUMBER: WO PCT/EP91/02409
; FILING DATE: 13-DEC-1991
; APPLICATION NUMBER: EP 90124241.2
; FILING DATE: 14-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: SADOFF, B.J.
; REGISTRATION NUMBER: 36,663
; REFERENCE/DOCKET NUMBER: 1487-5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 7038164000
; TELEFAX: 7038164100
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2894 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; SEQUENCE DESCRIPTION: SEQ ID NO: 23:
US-10-044-995-23
Alignment Scores:
Pred. No.: 1.72e-43 Length: 2894
Score: 598.00 Matches: 104
Percent Similarity: 94.78% Conservative: 5
Best Local Similarity: 90.43% Mismatches: 6
Query Match: 93.73% Indels: 0
DB: 4 Gaps: 0
US-09-873-224B-147 (1-346) x US-10-044-995-23 (1-2894)
QY 1 ATGACACACTTCCTTAACCAAGAAAGAAACCAACCAACACGCGGCACAG 60
Db 1 MetSerThrIleProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 20
61 GACGTTAAAGTTCACGCGCGGTGATCGTTGGTGGAGTTTACGTGCTACACGACG 120
Db 21 AspValLysPheProGlyGlyGlnIleValGlyGlyValTyrLeuLeuProArg 40
QY 121 GSCCCCAAGTTGGGTGCGTCCAGTGGCGAAGACTTCGAGCGGTGCGCAACTCGCA 180
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArg 60
QY 181 AGGCCCAACCCATCCAGCGCGCGGACCGAACCAGAGGCGAGTCTCTGGGCTCAGCC 240
Db 61 ArgArgGlnProIleProLysValArgArgProGluGlyArgThrTrpAlaGlnPro 80
QY 241 TACCTTGGCCCTATATGGGAATCAGGCTCGCGGTGGGCGAGGTGGCTCTCTGCC 300
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTyrAlaGlyTrpLeuLeuSer 100
QY 301 CGCGGCTCTCGCGCGTCTGGGGCCCAATGACCCCGCGCGAGG 345
Db 101 ArgGlySerArgProSerTrpGlyProThrAspProArgArg 115
RESULT 12
US-10-822-871-23
; Sequence 23, Application US/10822871
; Publication No. US20050003345A1
; GENERAL INFORMATION:
; APPLICANT: DELEYS, ROBERT J
; POLLET, DIRK
; MAERTENS, GEERT
; VAN HEUVERSWIN, HUGO
; TITLE OF INVENTION: SYNTHETIC ANTIGENS FOR THE DETECTION OF
; ANTIBODIES TO HEPATITIS C VIRUS
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHYE P.C.
; STREET: 1100 NORTH GLEBE ROAD
; CITY: ARLINGTON
; STATE: VA
; COUNTRY: USA
; ZIP: 22201
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/822,871
; FILING DATE: 13-Apr-2004
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/10/044,995
; FILING DATE: 15-Jan-2002
; APPLICATION NUMBER: 08/391,671
; FILING DATE: <Unknown>
; APPLICATION NUMBER: US 07/920,286
; FILING DATE: 14-OCT-1992
; APPLICATION NUMBER: WO PCT/EP91/02409
; FILING DATE: 13-DEC-1991
; APPLICATION NUMBER: EP 90124241.2
; FILING DATE: 14-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: SADOFF, B.J.
; REGISTRATION NUMBER: 36,663
; REFERENCE/DOCKET NUMBER: 1487-5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 7038164000
; TELEFAX: 7038164100
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2894 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; SEQUENCE DESCRIPTION: SEQ ID NO: 23:
US-10-044-995-23
Alignment Scores:
Pred. No.: 1.72e-43 Length: 2894
Score: 598.00 Matches: 104
Percent Similarity: 94.78% Conservative: 5
Best Local Similarity: 90.43% Mismatches: 6
Query Match: 93.73% Indels: 0
DB: 4 Gaps: 0
US-09-873-224B-147 (1-346) x US-10-044-995-23 (1-2894)
QY 1 ATGACACACTTCCTTAACCAAGAAAGAAACCAACCAACACGCGGCACAG 60
Db 1 MetSerThrIleProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 20
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; GENERAL INFORMATION:
; APPLICANT: Schmidt, Emmett Vance
; TITLE OF INVENTION: SCREENING ASSAY FOR HEPATITIS C VIRUS
; FILE REFERENCE: 00786-539001
; CURRENT FILING DATE: 2002-11-08
; PRIOR APPLICATION NUMBER: US/10/292,129
; PRIOR FILING DATE: 2001-11-09
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Hepatitis C virus
US-10-292-129-14
Alignment Scores:
Pred. No.: 1.76e-43 Length: 151
Score: 597.00 Matches: 105
Percent Similarity: 94.78% Conservative: 4
Best Local Similarity: 91.30% Mismatches: 6
Query Match: 93.57% Indels: 0
DB: 4
US-09-873-224B-147 (1-346) x US-10-292-129-14 (1-151)
QY 1 ATGAGCACACTTCCTAAACCAACAAAGAAAACCAACCAACCAACCCGCGCACAG 60
Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 20
QY 61 GACGTTAAGTTCCCGAGCGCGGTCCAGATCGTTGGTGGAGTTTACGTGCTACCGCAGG 120
Db 21 AspValLysPheProGlyGlyGlnLeuValGlyValTyLeuLeuProArg 40
QY 121 GCGCCCGCAGTTGGGTGCTGCATGCGCAAGACTTCGAGCGGTGCGCAACTCGCAGT 180
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 181 AGCGCCCAACCCATCCCGAGCGCGCGCAACCGAGGCGAGTCTCGGCTCAGCCCGG 240
Db 61 ArgArgGlnProIleProLysAlaArgArgProGluGlyArgThrTrpAlaGlnProGly 80
QY 241 TACCTTCGCGCCCTATATGGGAATGAGGCTCGCGGTGCGAGGTGCTCTGTCCTCCG 300
Db 81 TyrProTrpProLeuTyrgLysnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 301 CGCGGCTCTCGCCCTCGTGGGGCCCAAAATGACCCCGCGCGCAGG 345
Db 101 ArgGlySerArgProSerTrpGlyProThrAspProArgArg 115
US-09-873-224B-147 (1-346) x US-09-929-955-2 (1-182)
QY 1 ATGAGCACACTTCCTAAACCAACAAAGAAAACCAACCAACCAACCCGCGCACAG 60
Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 20
QY 61 GACGTTAAGTTCCCGAGCGCGGTCCAGATCGTTGGTGGAGTTTACGTGCTACCGCAGG 120
Db 21 AspValLysPheProGlyGlyGlnLeuValGlyValTyLeuLeuProArg 40
QY 121 GCGCCCGCAGTTGGGTGCTGCATGCGCAAGACTTCGAGCGGTGCGCAACTCGCAGT 180
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 181 AGCGCCCAACCCATCCCGAGCGCGCGCAACCGAGGCGAGTCTCGGCTCAGCCCGG 240
Db 61 ArgArgGlnProIleProLysAlaArgArgProGluGlyArgThrTrpAlaGlnProGly 80
QY 241 TACCTTCGCGCCCTATATGGGAATGAGGCTCGCGGTGCGAGGTGCTCTGTCCTCCG 300
Db 81 TyrProTrpProLeuTyrgLysnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 301 CGCGGCTCTCGCCCTCGTGGGGCCCAAAATGACCCCGCGCGCAGG 345
Db 101 ArgGlySerArgProSerTrpGlyProThrAspProArgArg 115
US-09-929-955-2
; Sequence 2, Application US/09929955
; Patent No. US20020136740A1
; GENERAL INFORMATION:
; APPLICANT: Matti Sallberg
; APPLICANT: Catharina Hultgren
; TITLE OF INVENTION: VACCINES CONTAINING RIBAVIRIN AND
; FILE REFERENCE: TRIPEP.23AUS2
; CURRENT FILING DATE: 2001-08-15
; PRIOR APPLICATION NUMBER: US/09/929,955
; PRIOR FILING DATE: 2000-11-03
; PRIOR FILING DATE: 2000-11-03
; PRIOR APPLICATION NUMBER: 60/229,175
; PRIOR FILING DATE: 2000-08-29
; PRIOR APPLICATION NUMBER: 60/225,767
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
RESULT 15
US-09-929-955-2
; Sequence 2, Application US/09929955
; Patent No. US20020136740A1
; GENERAL INFORMATION:
; APPLICANT: Matti Sallberg
; APPLICANT: Catharina Hultgren
; TITLE OF INVENTION: VACCINES CONTAINING RIBAVIRIN AND
; FILE REFERENCE: TRIPEP.23AUS2
; CURRENT FILING DATE: 2001-08-15
; PRIOR APPLICATION NUMBER: US/09/929,955
; PRIOR FILING DATE: 2000-11-03
; PRIOR FILING DATE: 2000-11-03
; PRIOR APPLICATION NUMBER: 60/229,175
; PRIOR FILING DATE: 2000-08-29
; PRIOR APPLICATION NUMBER: 60/225,767
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
```

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OM nucleic - protein search, using frame_plus_n2p model
Run on: January 28, 2006, 04:36:46 ; Search time 7.5 Seconds
(without alignments)
999.163 Million cell updates/sec

Title: US-09-873-224B-147
Perfect score: 638
Sequence: 1 atgagcacactctctaacc.....aatgaccccgccgagcagga 346

Scoring table: BLOSUM62
Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 75621 seqs, 10829074 residues

Total number of hits satisfying chosen parameters: 151242

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Command line parameters:
-MODEL=frame+ n2p.model -DEV=xlp
-O=/cn2_1/USPTO spool_p/US09873224/runat_27012006_154124_13628/app_query.fasta_1.519
-DB=Published Applications AA_New -QFMT=fastan -SUFFIX=n2p.rapbn -MINMATCH=0.1
-LOOPCL=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62
-TRANS=human40.cdi -LIST=45 -DOCLALIGN=200 -THR SCORE=pct -THR MAX=100
-THR MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZ=500 -MINLEN=0
-MAXLEN=200000000 -USER=US09873224 @CGN 1 @runat_27012006_154124_13628
-NCPUS=6 -ICPU=3 -NO MMAP -LARGEQUERY -NEG_SCORES=0 -WAIT -DSPBLOCK=100
-LONGLOG -DEV_TIMEOUT=120 -WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5
-FGAPOP=6 -FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :
1: /cn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pap:*
2: /cn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pap:*
3: /cn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pap:*
4: /cn2_6/ptodata/2/pubpaa/PTC_NEW_PUB.pap:*
5: /cn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pap:*
6: /cn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pap:*
7: /cn2_6/ptodata/2/pubpaa/US11_NEW_PUB.pap:*
8: /cn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pap:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	597	93.6	3011	US-10-985-205-3	Sequence 3, Appli
2	580	90.9	2280	US-11-022-562-211	Sequence 211, App
3	88.5	13.9	288	US-11-149-462-8	Sequence 8, Appli
4	88.5	13.9	591	US-11-054-281-36	Sequence 36, Appl
5	88.5	13.9	591	US-11-054-281-128	Sequence 128, App
6	85.5	13.4	479	US-10-821-234-871	Sequence 871, App
7	83	13.0	1466	US-11-186-284-33	Sequence 33, Appl
8	83	13.0	1496	US-11-186-284-35	Sequence 35, Appl
9	83	12.8	2471	US-11-050-346-68	Sequence 68, Appl
10	82.5	12.7	1664	US-10-055-877-212	Sequence 212, Appl

11	80.5	12.6	355	7	US-11-135-855-44	Sequence 44, Appl
12	80	12.5	549	7	US-11-054-281-129	Sequence 129, App
13	80	12.5	592	7	US-11-054-281-126	Sequence 126, App
14	80	12.5	592	7	US-11-054-281-127	Sequence 127, App
15	79.5	12.2	1620	6	US-10-055-877-213	Sequence 213, App
16	78.5	12.3	1166	6	US-10-821-234-964	Sequence 964, App
17	78	12.2	255	7	US-11-115-086-11	Sequence 11, Appl
18	78	12.2	401	6	US-10-821-234-881	Sequence 881, App
19	78	12.2	922	7	US-11-115-086-9	Sequence 9, Appli
20	78	12.2	974	7	US-11-115-086-7	Sequence 7, Appli
21	77	12.1	180	7	US-11-155-288-7	Sequence 28, Appl
22	77	12.1	240	7	US-11-021-441-28	Sequence 89, Appl
23	77	12.1	843	7	US-11-129-104-89	Sequence 243, App
24	75.5	11.8	1464	7	US-11-000-463-243	Sequence 28, Appl
25	75.5	11.8	1464	7	US-11-186-284-28	Sequence 11, Appli
26	75.5	11.8	1464	7	US-11-021-603-2	Sequence 1096, Ap
27	75.5	11.8	1467	6	US-10-821-234-1096	Sequence 4, Appli
28	75	11.8	119	7	US-11-110-424-4	Sequence 955, App
29	75	11.5	1187	6	US-10-821-234-955	Sequence 880, App
30	75	11.5	1198	6	US-10-453-372-880	Sequence 864, App
31	75	11.5	1418	6	US-10-453-372-864	Sequence 48, Appl
32	75	11.5	1450	6	US-10-055-877-48	Sequence 874, App
33	75	11.5	1450	6	US-10-453-372-874	Sequence 62, Appl
34	74.5	11.5	284	6	US-10-063-703-62	Sequence 15, Appl
35	74.5	11.5	284	7	US-11-102-240-62	Sequence 62, Appl
36	74	11.6	337	6	US-10-497-135-15	Sequence 15, Appl
37	74	11.6	618	7	US-11-078-735-18	Sequence 18, Appl
38	74	11.6	618	7	US-11-050-346-63	Sequence 63, Appl
39	74	11.6	618	7	US-11-103-077-18	Sequence 18, Appl
40	74	11.6	1516	6	US-10-220-824-8	Sequence 2, Appli
41	73	11.2	438	7	US-11-186-541-2	Sequence 1, Appli
42	73	11.2	529	7	US-11-186-541-1	Sequence 35, Appl
43	73	11.2	617	7	US-11-143-980-35	Sequence 1134, Ap
44	73	11.2	773	6	US-10-821-234-1134	Sequence 3, Appli
45	72.5	11.2	504	7	US-11-186-541-3	

ALIGNMENTS

RESULT 1
US-10-985-205-3
; Sequence 3, Application US/10985205
; Publication No. US20050266400A1
; GENERAL INFORMATION:
; APPLICANT: Dumonceaux, Julie
; APPLICANT: Cormier, Emmanuel G.
; APPLICANT: Gardner, Jason P.
; APPLICANT: Dragic, Tatjana
; TITLE OF INVENTION: NOVEL SEQUENCES ENCODING HEPATITIS C VIRUS GLYCOPROTEINS
; FILE REFERENCE: 71242-A/JPW/AJD
; CURRENT APPLICATION NUMBER: US/10/985,205
; CURRENT FILING DATE: 2004-11-09
; PRIOR APPLICATION NUMBER: US 60/519,536
; PRIOR FILING DATE: 2003-11-12
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 3011
; TYPE: PRT
; ORGANISM: Hepatitis C virus
US-10-985-205-3
Alignment Scores:
Pred. No.: 1.75e-45 Length: 3011
Score: 597.00 Matches: 105
Percent Similarity: 94.78% Conservative: 4
Best Local Similarity: 91.30% Mismatches: 6
Query Match: 93.57% Indels: 0
DB: 6 Gaps: 0
US-09-873-224B-147 (1-346) x US-10-985-205-3 (1-3011)
Qy 1 ATGAGCACACTTCTCTAAACCAAGAAAAACCAAGAAACCAACCAACCGGCCACAG 60

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||||| 1 MetSerThrAsnProlyProGlnArglyshThrylsArgAsnthRasnArgProGln 20
Db
61 GACGTTAAAGTCCAGCGGGCGGTGAGATCGTGTGGAGTTTACGTGCTACCGCAGG 120
Db
21 AspVallysPheProGlyGlyGlnIleValGlyGlyValTyLeuLeuProArgArg 40
Qy
121 GGGCCCCAGTTGGGTGTCGTCAGTGGCGAAGACTTCCGAGCGGTCCGAACCTCGCAGT 180
Db
41 GlyProArgLeuGlyValArgAlaThrArglyshThrSerGluArgSerGlnProArgGly 60
Qy
181 AGGGCCCAACCATCCAGCGCGCGCGAACCAGAGGCGAGTCTCTGGCTCAGCCCGG 240
Db
61 ArgArgGlnProIleProlyGlnAlaArgProGluGlyArgshThrTrpAlaGlnProGly 80
Qy
241 TACCTTGGCCCCCTATATGGGAATGAGGGCTGCGGGTGGCGAGGTGCTCTGTCCCG 300
Db
81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
Qy
301 CGCGCTCTCGCCGCTCTGTGGGGCCCAATGACCCCGCGCGAGG 345
Db
101 ArgGlySerArgProSerTrpGlyProThrAspProArgArgArg 115
RESULT 2
US-11-022-562-211
; Sequence 211, Application US/11022562
; Publication No. US20050249742A1
; GENERAL INFORMATION:
; APPLICANT: Shisong, Ruth M.
; APPLICANT: Ruprecht, Jiang
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR MODULATING
; FILE REFERENCE: A CYTOTOXIC T LYMPHOCYTE IMMUNE RESPONSE
; CURRENT APPLICATION NUMBER: US/11/022,562
; PRIOR FILING DATE: 2004-12-22
; PRIOR APPLICATION NUMBER: PCT/US03/20322
; PRIOR FILING DATE: 2003-06-27
; PRIOR APPLICATION NUMBER: 60/392718
; PRIOR FILING DATE: 2002-06-27
; NUMBER OF SEQ ID NOS: 340
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 211
; LENGTH: 2280
; TYPE: PRT
; ORGANISM: Hepatitis C Virus
US-11-022-562-211
Alignment Scores:
Pred. No.: 5,566-44 Length: 2280
Score: 580.00 Matches: 104
Percent Similarity: 92.17% Conservative: 2
Best Local Similarity: 90.43% Mismatches: 9
Query Match: 90.91% Indels: 0
DB: 7 Gaps: 0
US-09-873-224B-147 (1-346) x US-11-022-562-211 (1-2280)
Qy 1 ATGAGCACACTTCTTAAACCAAGAAAAACCAAGAAAAACCAACCCGCGCACAG 60
Db 1 MetSerThrAsnProlyProGlnArglyshThrylsArgAsnthRasnArgProGln 20
Qy 61 GACGTTAAAGTCCAGCGGGCGGTGAGATCGTGTGGAGTTTACGTGCTACCGCAGG 120
Db 21 AspVallysPheProGlyGlyGlnIleValGlyGlyValTyLeuLeuProArgArg 40
Qy 121 GGGCCCCAGTTGGGTGTCGTCAGTGGCGAAGACTTCCGAGCGGTCCGAACCTCGCAGT 180
Db 41 GlyProThrLeuGlyValArgAlaThrArglyshThrSerGluArgSerGlnProArgGly 60
Qy 181 AGGGCCCAACCATCCAGCGCGCGCGAACCAGAGGCGAGTCTCTGGCTCAGCCCGG 240
Db 61 ArgArgGlnProIleProlyGlnAlaArgProGluGlyArgshThrTrpAlaGlnProGly 80
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Qy 241 TACCTTGGCCCCCTATATGGGAATGAGGGCTGCGGGTGGCGAGGTGCTCTGTCTCCCG 300
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
Qy 301 CGCGCTCTCGCCGCTCTGTGGGGCCCAATGACCCCGCGCGAGG 345
Db 101 ArgGlySerArgProSerTrpGlyProThrAspProArgArgArg 115
RESULT 3
US-11-149-462-8
; Sequence 8, Application US/11149462
; Publication No. US20060002978A1
; GENERAL INFORMATION:
; APPLICANT: Shea, Lonnie D.
; APPLICANT: Shea, Lonnie L.
; APPLICANT: Whittlesey, Kevin
; APPLICANT: Yang, Yang
; APPLICANT: Rives, Christopher
; APPLICANT: Rovedo, Mark
; APPLICANT: Iskandar, Bermans
; TITLE OF INVENTION: Biodegradable Scaffolds and Uses Thereof
; FILE REFERENCE: 1720-1-011N
; CURRENT APPLICATION NUMBER: US/11/149,462
; CURRENT FILING DATE: 2005-06-09
; PRIOR APPLICATION NUMBER: 60/578,785
; PRIOR FILING DATE: 2004-06-10
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 288
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-149-462-8
Alignment Scores:
Pred. No.: 0.535 Length: 288
Score: 88.50 Matches: 38
Percent Similarity: 38.52% Conservative: 9
Best Local Similarity: 31.15% Mismatches: 35
Query Match: 13.87% Indels: 40
DB: 7 Gaps: 5
US-09-873-224B-147 (1-346) x US-11-149-462-8 (1-288)
Qy 73 CCAGCGCGCGGTGAGATCGTTGGT-----GGAGTT----- 102
Db 16 ProGlyGlyCysGlnIleSerGlyArgAlaAlaArgGlyCysAsnGlyIleProGlyAla 35
Qy 103 -----TACGTGCTTACACGAGCGGGCCCCAGTTGGGTGTCGTGCGTGCAGTGC 150
Db 36 AlaAlaTrpGluAlaAlaLeuProArgArgProArg-----Arg 49
Qy 151 AAGACTTCCGAGCGGTGCGAACCTCGCAGTAGGCGCCCAACCCATCCCGAGGCGCGCGA 210
Db 50 HisProSerValAsnProArgSerArgAlaAlaGlySerProArgThrArgGlyArg 69
Qy 211 ACCGAGGCGAGGTCTCT-----GGGCTCAGCCCGGGTACCCT 246
Db 70 ThrGluGluArg-ProSerGlySerArgLeuGlyAspArgGlyArgGlyAlaLeuPr 89
Qy 247 TGGCCCCCTATATGGGAATGAGGGCTGCGGGT----- 277
Db 89 oGlyGlyArgLeuGlyGlyArgGlyArgGlyArgAlaProGluArgValGlyGlyArgG 109
Qy 278 ----GGGCGAGGTGCTCTCTGCTCCCGCGCGGTCTCGCCCGTGGGGGCCCAATGAC 333
Db 109 yArgGlyArgGlyThrAlaAlaProArgAlaAlaProAlaAlaArgGlySerArgProG 129
Qy 334 CCCC 337
Db 129 yPro 130
RESULT 4
```



```
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-821-234-871

Alignment Scores:
Pred. No.: 0.897 Length: 479
Score: 85.50 Matches: 36
Percent Similarity: 36.36% Conservative: 8
Best Local Similarity: 29.75% Mismatches: 38
Query Match: 13.40% Indels: 39
DB: 6 Gaps: 4

US-09-873-224B-147 (1-346) x US-10-821-234-871 (1-479)

Qy 81 CGGTCAGATCGTGTGGAGTTACGTCTACACGCGGGGCC-----CCA 128
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 37 LysSerProGlnThrTrpProArgArgThrProArgSerProGluProAlaPro 56
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy 129 GTTGGGTGGTGCAGTCCGACACTCCGAGCGGTCCGACCTCGC-----177
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 57 -SerGlyValArgGlySerThrTrpThrArgArgAspThrProArgAlaGlyPr 76
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy 178 -----AGTAGGGCCCAACCCATCCCC-- 198
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 76 oThrAlaLeuSerArgTyrValGlyHisLeuTrpMetGlyArgArgProSerProGl 96
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy 199 -----AGGGCGCGCCCGAACCAGGGCGAG 221
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 96 uAlaArgGlyProValProArgSerSerAlaAlaSerArgAlaArgSer-LeuAla 116
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy 222 GTCTGGGCTAGCCCGGGTACCTTGGCCCTATATGGATGAGGCTCGGGTGGGC 281
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 116 erProGlyIleSerProGlyProLeuThrAlaThrIleGlyGlyAlaValAlaGlyGly 136
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy 282 AGGTGGCTCTGTCGCCGCGGCTCTCGCCCGTCTCGGGGGCCCAATGACCCCGC 340
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 136 ly-----ProArgGlnGlyArgAlaGluAlaHisLysGluValPheProGly 151

RESULT 7
US-11-186-284-33
; Sequence 33, Application US/11186284
; Publication No. US20050266493A1
; GENERAL INFORMATION:
; APPLICANT: Millennium Pharmaceuticals, Inc.
; APPLICANT: Berger, Allison
; APPLICANT: Guillemette, Tracy L.
; APPLICANT: Kamatkar, Shubhangi
; APPLICANT: Schlegel, Robert
; APPLICANT: Monahan, John E.
; APPLICANT: Thibodeau, Stephen J.
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND
; TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITLE OF INVENTION: THERAPY OF COLON CANCER
; FILE REFERENCE: MPM01-029P2RNM
; CURRENT APPLICATION NUMBER: US/11/186,284
; PRIOR FILING DATE: 2005-07-21
; PRIOR APPLICATION NUMBER: US/10/301,822
; PRIOR FILING DATE: 2001-12-10
; PRIOR APPLICATION NUMBER: US 60/339,971
; PRIOR FILING DATE: 2002-03-05
; PRIOR APPLICATION NUMBER: US 60/361,978
; PRIOR FILING DATE: 2002-05-20
; NUMBER OF SEQ ID NOS: 228
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 33
; LENGTH: 1466
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-11-186-284-33

Alignment Scores:
Pred. No.: 1.22 Length: 1496
Score: 83.00 Matches: 32
Percent Similarity: 40.95% Conservative: 11
```

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Alignment Scores:
Pred. No.: 1.23 Length: 1466
Score: 83.00 Matches: 34
Percent Similarity: 38.89% Conservative: 8
Best Local Similarity: 31.48% Mismatches: 47
Query Match: 13.01% Indels: 19
DB: 7 Gaps: 4

US-09-873-224B-147 (1-346) x US-11-186-284-33 (1-1466)

Qy 55 CCACAGGACGTTAAGTTCCACGCGCGGTCCAGATCGTTGGTGGAGTTTACGTGCTACCA 114
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 838 ProProGlyValAlaGlyProProGlyGlySerGlyProAlaGly-----852
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy 115 GCGAGGGCCCCCGGTTGGTGGTGCAGTCCGAGACTTCCGAGCGGTGCGAACCT 174
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 853 ProProGlyProGln---GlyValLysGlyGluArgGlySer-ProGlyGlyProGlyAl 871
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy 175 CGCA-----GTAGGCGCCAAACCCATCCCCAGG 201
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 871 aAlaGlyPheProGlyAlaArgGlyLeuProGlyProProGlySerAsnGlyAsnProGl 891
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy 202 GCGCGCCGAACCGAGGCGAGTCTGGCTCAGCCCGGTACCTTGGCCCTATATGGG 261
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 891 yProProGlyProSerGlySerProGly---LysAspGlyProProGlyProAlaGlyAs 910
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy 262 AATGAGGCTCGCGGTGGCGAGGTGGCTCTCTGTCGCCGCGGCTCTCGCCCGTCTGG 321
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 910 nThrGlyAlaProGlySerProGlyValSerGlyProLysGlyAspAlaGlyGlnProGl 930
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Qy 322 GCGCCAAATGACCCCGCGCA 343
   : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 930 yGluLysGlySerProGlyAla 937

RESULT 8
US-11-186-284-35
; Sequence 35, Application US/11186284
; Publication No. US20050266493A1
; GENERAL INFORMATION:
; APPLICANT: Millennium Pharmaceuticals, Inc.
; APPLICANT: Berger, Allison
; APPLICANT: Guillemette, Tracy L.
; APPLICANT: Kamatkar, Shubhangi
; APPLICANT: Schlegel, Robert
; APPLICANT: Monahan, John E.
; APPLICANT: Thibodeau, Stephen J.
; APPLICANT: Burgart, Lawrence J.
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND
; TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITLE OF INVENTION: THERAPY OF COLON CANCER
; FILE REFERENCE: MPM01-029P2RNM
; CURRENT APPLICATION NUMBER: US/11/186,284
; PRIOR FILING DATE: 2005-07-21
; PRIOR APPLICATION NUMBER: US/10/301,822
; PRIOR FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 60/339,971
; PRIOR FILING DATE: 2001-12-10
; PRIOR APPLICATION NUMBER: US 60/361,978
; PRIOR FILING DATE: 2002-03-05
; PRIOR APPLICATION NUMBER: US 60/381,988
; PRIOR FILING DATE: 2002-05-20
; NUMBER OF SEQ ID NOS: 228
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 35
; LENGTH: 1496
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-11-186-284-35

Alignment Scores:
Pred. No.: 1.22 Length: 1496
Score: 83.00 Matches: 32
Percent Similarity: 40.95%
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; PRIOR APPLICATION NUMBER: 60/264,117
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: 60/264,139
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: 60/264,478
; PRIOR FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/263,351
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: 60/272,870
; PRIOR FILING DATE: 2001-03-02
; PRIOR APPLICATION NUMBER: 60/275,990
; PRIOR FILING DATE: 2001-03-14
; PRIOR APPLICATION NUMBER: 60/275,927
; PRIOR FILING DATE: 2001-03-14
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 512
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 212
; LENGTH: 1664
; TYPE: PRT
; ORGANISM: Caenorhabditis elegans
US-10-055-877-212

Alignment Scores:
Pred. No.: 1.33 Length: 1664
Score: 82.50 Matches: 32
Percent Similarity: 35.20% Conservative: 12
Best Local Similarity: 25.60% Mismatches: 42
Query Match: 12.69% Indels: 39
DB: 6 Gaps: 6

US-09-873-224B-147 (1-346) x US-10-055-877-212 (1-1664)
Qy 343 TGGCGCGGGGTCTATTGGGCCCCACGACGCGCGAGAGCGCGGGGACAGAGCCACC 284
Db 1431 CysAlaasnGlyHisCysAsnAlaSerSerGlyGluCysHisCysAsnLeuGlyPheThr 1450
Qy 283 CTGCCACCCAGCCCTCATTTCCCATATAGGGGCCAAGGGT----- 242
Db 1451 GlyProSerCysGluGlnSerCysProSerGlyLysTyrGlyLeuAsnCysThrLeuAsp 1470
Qy 241 -----ACCGGGCTGAGGCC-----AGGACCTGCCT--- 215
Db 1471 CysGluCysTyrGlyGlnAlaArgCysAspProValGlnGlyCysCysAspCysProPro 1490
Qy 214 -----CGGTTCCGCGCGCCCTGGGATGGGTTGGGGCGCTACTGCG 176
Db 1491 GlyArgTyrGlySerArgCysGlnPheSerCysProAsnGlyPheTyrGlyTyrCys 1510
Qy 175 GAGGTTCGACCGCTCGGAATCTTGGCGCATGTGCACGCGACAC----- 134
Db 1511 SerGlnSerCys-----SerCysGlnAsnGlyAlaHisCysAspGlyAlaAspGly 1527
Qy 133 -----CCAACTGGGGGCCCTCGCTGGTGTAGCAGCTAACTCCACCAAGATCT 86
Db 1528 ArgCysLeuCysProAlaGlyPheGlnValLysLeuAlaAsnLys-----LysLysAsn 1545
Qy 85 GACCGCCCGCTGGGA 71
Db 1546 AspLeuGluLeuGly 1550

RESULT 11
US-11-135-855-44
; Sequence 44, Application US/11135855
; Publication No. US2005025557A1
; GENERAL INFORMATION:
; APPLICANT: SMITHKLINE BEECHAM CORPORATION
; TITLE OF INVENTION: SMITHKLINE BEECHAM P.1.c.
; FILE REFERENCE: NOVEL COMPOUNDS
; CURRENT APPLICATION NUMBER: US/11/135,855
; CURRENT FILING DATE: 2005-05-24
; PRIOR APPLICATION NUMBER: US/10/203,708

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; PRIOR FILING DATE: 2002-08-13
; PRIOR APPLICATION NUMBER: PCT/US01/04703
; PRIOR FILING DATE: 2001-02-14
; PRIOR APPLICATION NUMBER: 60/182,172
; PRIOR FILING DATE: 2000-02-14
; PRIOR APPLICATION NUMBER: 60/186,084
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 44
; LENGTH: 355
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-135-855-44

Alignment Scores:
Pred. No.: 2.57 Length: 355
Score: 80.50 Matches: 30
Percent Similarity: 38.10% Conservative: 10
Best Local Similarity: 28.57% Mismatches: 20
Query Match: 12.62% Indels: 45
DB: 7 Gaps: 7

US-09-873-224B-147 (1-346) x US-11-135-855-44 (1-355)
Qy 97 GGAGTTTACGTGTACCAACGCGCGCGCCGCCAGTTGGGTGTGCGTGCAGTCGCGCAAGACT 156
Db 202 GlyLeuTrpLeuLeuPro-----GlyPro-----ValGlyArgThr 213
Qy 157 TCCGAGGGGTGCGAA-----CCTCGCAGTAGGCGC 186
Db 214 GlyArgArgSerProCysGlyProLeuArgSerSerLeuLysValProArgSerGlnVal 233
Qy 187 CAACCCATCCCGCGCGCGCGCAACCGAGGCGAGGTCTCTGGCTCAG----- 234
Db 234 Gln-----AlaArgAspProLeuGlyGluGlyArgGlyGlyLeuArg 249
Qy 235 ---CCCGGGTACCTTGGCCCTATAT---GGGAATGAGGGCTCGCGGTGG----- 279
Db 250 AspProAspLeuProTrpProLleGluGlyGlyGlnGlyValGlyThrPheArgArg 269
Qy 280 -----GCAGGTGGCTCTCTGTCC 297
Db 270 ProValLeuLeuGlyGlyValSerProAlaGluAlaGlnArgAlaTrpTrpValLeuGlu 289
Qy 298 CCGCGCGGCTCTCGC 312
Db 290 ProProGlyAlaArg 294

RESULT 12
US-11-054-281-129
; Sequence 129, Application US/11054281
; Publication No. US20060013813A1
; GENERAL INFORMATION:
; APPLICANT: Mezes et al.
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-240CIP
; CURRENT APPLICATION NUMBER: US/11/054,281
; CURRENT FILING DATE: 2005-02-08
; PRIOR APPLICATION NUMBER: 60/261,014
; PRIOR FILING DATE: 2001-01-11
; PRIOR APPLICATION NUMBER: 60/261,018
; PRIOR FILING DATE: 2001-01-11
; PRIOR APPLICATION NUMBER: 60/318,410
; PRIOR FILING DATE: 2001-09-10
; PRIOR APPLICATION NUMBER: 60/261,013
; PRIOR FILING DATE: 2001-01-11
; PRIOR APPLICATION NUMBER: 60/261,026
; PRIOR FILING DATE: 2001-01-11
; PRIOR APPLICATION NUMBER: 60/261,029
; PRIOR FILING DATE: 2001-01-11
; PRIOR APPLICATION NUMBER: 60/313,170
; PRIOR FILING DATE: 2001-08-17

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US-09-873-224B-147 (1-346) x US-11-054-281-126 (1-592)

US-09-873-224B-147 (1-346) x US-11-054-281-129 (1-549)

RESULT 14

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US-11-054-281-127
; Sequence 127, Application US/11054281
; Publication NO. US20060013813A1
; GENERAL INFORMATION:
; APPLICANT: Mezes et al.
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-240CIP
; CURRENT APPLICATION NUMBER: US/11/054,281

```

```

; GENERAL INFORMATION:
; APPLICANT: Mezes et al.
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same

```

```

/ PRIOR FILING DATE: 2001-09-10
/ PRIOR APPLICATION NUMBER: 60/261,013
/ PRIOR FILING DATE: 2001-01-11
/ PRIOR APPLICATION NUMBER: 60/261,026
/ PRIOR FILING DATE: 2001-01-11
/ PRIOR APPLICATION NUMBER: 60/261,029
/ PRIOR FILING DATE: 2001-01-11
/ PRIOR APPLICATION NUMBER: 60/313,170
/ PRIOR FILING DATE: 2001-08-17
/ PRIOR APPLICATION NUMBER: 10/044,564
/ PRIOR FILING DATE: 2002-01-11
/ NUMBER OF SEQ ID NOS: 324
/ SOFTWARE: Patentin Ver. 2.1
/ SEQ ID NO 127
/ LENGTH: 592
/ TYPE: PRT
/ ORGANISM: Mus musculus
/ US-11-054-281-127

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Alignment Scores:		
Pred. No.:	2.61	Length:
Score:	80.00	Matches:
Percent Similarity:	42.54%	Conservative:
Best Local Similarity:	31.91%	Mismatches:
Query Match:	12.54%	Indels:
DB:	7	Gaps:
		5
		592

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US-09-873-224B-147 (1-346) x US-11-054-281-127 (1-592)
QY 41 ACACCAACNCGGCGCACAGGAGTTAAGTTCCTCCAGGCGGGTGCAGATCGTGTGGAG 100
Db 107 ThrProIleProAlaCysArgProMetCysGluGlnAlaArgLeuArgCysAlaProIle 126
QY 101 TTTAGTCTACCAGCGAGGCGCCCGAGTTGGTGTGGTGCAGTGGCGAGACTTCG 160
Db 127 MetGluGlnPheAsnPheGlyTrpProAsp-----SerLeuAspCysAlaArgLeuPro 144
QY 161 AGCGGTGCGAAC-----CTCGCAGTAGGCGCCACACCCATCCCGAGG 202
Db 145 Thr-----ArgAsnAspProHisAlaLeuCysMetGluAlaProGluAsnAlaThrAlaGly 163
QY 203 CGCGCCGACCGAGGCGAGTCTCTGGCTCAGCGGCTACCCCTTGGCGCCCTATATG--- 259
Db 164 ProThrGluProHisGlyLeuGlyMetLeuProValAlaProArgProAlaArgPro 183
QY 260 ---GGAATGAGGCTGCGGGT---GGGAGGGTGGCTCTGT 295
Db 184 ProGlyAspSerAlaProGlyProGlySerGlyGlyThrCys 197

RESULT 15
US-10-055-877-213
; Sequence 213, Application US/10055877
; Publication No. US2005028241A1
; GENERAL INFORMATION:
; APPLICANT: DeCristofaro, Marc
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Miller, Charles
; APPLICANT: Tchernev, Velizar
; APPLICANT: Zhong, Mei
; APPLICANT: Anderson, David
; APPLICANT: Ballinger, Robert
; APPLICANT: Gerlach, Valerie
; APPLICANT: Spytek, Kimberly
; APPLICANT: Kateili, Luca
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Guo, Xiaojia
; APPLICANT: Zerhusen, Bryan
; APPLICANT: Andrew, David
; APPLICANT: Mezes, Peter
; APPLICANT: Patturajan, Meera
; APPLICANT: Burgess, Catherine
; APPLICANT: Eisen, Andrew
; APPLICANT: Wolenc, Adam
; APPLICANT: Baumgartner, Jason
; APPLICANT: Shinkets, Richard
; APPLICANT: Gusev, Vladimir
; APPLICANT: Vernet, Corine
; APPLICANT: Taupier Jr., Raymond
; APPLICANT: Pena, Carol
; APPLICANT: Shenoy, Suresh
; APPLICANT: Li, Li
; APPLICANT: Casman, Stacie
; APPLICANT: Boldog, Ference
; TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoded Thereby
; FILE REFERENCE: 21402-251
; CURRENT APPLICATION NUMBER: US/10/055,877
; CURRENT FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: 60/262,892
; PRIOR FILING DATE: 2001-01-19
; PRIOR APPLICATION NUMBER: 60/263,598
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: 60/263,799
; PRIOR FILING DATE: 2001-01-24
; PRIOR APPLICATION NUMBER: 60/264,117
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: 60/264,139
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: 60/264,478
; PRIOR FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/263,351
```

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; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: 60/272,870
; PRIOR FILING DATE: 2001-03-02
; PRIOR APPLICATION NUMBER: 60/275,990
; PRIOR FILING DATE: 2001-03-14
; PRIOR APPLICATION NUMBER: 60/275,927
; PRIOR FILING DATE: 2001-03-14
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 512
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 213
; LENGTH: 1620
; TYPE: PRT
; ORGANISM: Caenorhabditis elegans
US-10-055-877-213

Alignment Scores:
Pred. No.: 2.44 Length: 1620
Score: 79.50 Matches: 28
Percent Similarity: 35.92% Conservative: 9
Best Local Similarity: 27.18% Mismatches: 37
Query Match: 12.23% Indels: 29
DB: 6 Gaps: 5

US-09-873-224B-147 (1-346) x US-10-055-877-213 (1-1620)
QY 343 TGGCGCGGGGTCTATTGGGCCCCACGACGCGGCGAGAGCCGCGGGGACAGGCCACC 284
Db 1495 CysAlaAsnGlyHisCysAsnAlaSerSerGlyGluCysLysCysAsnLeuGlyPheThr 1514
QY 283 CTGCCACCCCGCAGCCCTCATTTCCCATATAGGGGCCCAAGGGT----- 242
Db 1515 GlyProSerCysGluGlnSerCysProSerGlyLysTyrGlyLeuAsnCysThrLeuAsp 1534
QY 241 -----ACCGGGCTGAGGCC-----AGGACCTGGCCT--- 215
Db 1535 CysGluCysTyrGlyGlnAlaArgCysAspProValGlnGlyCysCysAspCysProPro 1554
QY 214 -----CGGTTGCGCGCGCTGGGATGGTGGCGCTACTGC 176
Db 1555 GlyArgTyrGlySerArgCysGlnPheSerCysProAsnGlyPheTyrGlyTyrCys 1574
QY 175 GAGGTTCGACCGCTCGGAGTCTTGGCACTGCGCACACGCCAATCGG-----GGC 122
Db 1575 SerGlnSerCys-----SerCysGlnAsnGlyAlaHisCysAspGlyAlaAspGly 1591
QY 121 CCCTGCGTG 113
Db 1592 ArgCysLeu 1594

Search completed: January 28, 2006, 04:48:30
Job time : 12.5 secs
```



```
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTYENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; TITLE OF INVENTION: AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESS: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 49:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 309 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHEetical: NO
; ANTI-SENSE: NO
; US-08-836-075A-49

Query Match 75.1%; Score 260; DB 3; Length 309;
Best Local Similarity 100.0%; Pred. No. 9.2e-120; Mismatches 0; Indels 0; Gaps 0;
Matches 260; Conservative 0;

Qy 51 CCGGCCACAGACGTTAAAGTTCCACAGGCGCGGTCCAGATCGTTGTTGAGTTTACGTGCT 110
Db |||
Qy 111 ACCACGACAGGCGGCCCGGTTGGTGTGCGTGCAGTGCAGCAAGACTTCCGAGCGGTGCGCA 170
Db |||
Qy 171 ACCTGCGAGTAGGCGCCCAACCCATCCCGAGGCGCGCCGACCCGAGGCGAGTCTCTGGGC 230
Db |||
Qy 170 ACCTGCGAGTAGGCGCCCAACCCATCCCGAGGCGCGCCGACCCGAGGCGAGTCTCTGGGC 229
Db |||
Qy 231 TCAGCCCGGGTACCTTCGCGCCCTATATGGAATGAGGCGTGCAGGTTGGGCGAGGTTGCT 290
Db |||
Qy 230 TCAGCCCGGGTACCTTCGCGCCCTATATGGAATGAGGCGTGCAGGTTGGGCGAGGTTGCT 289
Db |||
Qy 291 CCTGTCCCGCGCGCTCTC 310
Db |||
Qy 290 CCTGTCCCGCGCGCTCTC 309
Db |||
```

RESULT 3

```
US-08-931-855B-13
; Sequence 13, Application US/08931855B
; Patent No. 6692751
; GENERAL INFORMATION:
; APPLICANT: ZEBEDEE, SUZANNE
; APPLICANT: INCHAUSPE, GENEVIEVE
; APPLICANT: NASOFF, MARC S.
; APPLICANT: PRINCE, ALFRED M.
; APPLICANT: HELTING, TORSTEN B.
; APPLICANT: DREVIN, HAKAN
; APPLICANT: NUNN, MICHAEL F.
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR PRODUCING
; TITLE OF INVENTION: RECOMBINANT VIRAL ANTIGENS
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: James P. Hillman
; STREET: 45010 Pawnee Drive
; CITY: Fremont
; STATE: CA
; COUNTRY: USA
; ZIP: 94539
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy Disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 5.0 Dos Txt
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/931,855B
; FILING DATE: Sep 16, 1997
; CLASSIFICATION: 435
; CLASSIFICATION: 435
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US08/563,733
; FILING DATE: 8-NOV-1995
; APPLICATION NUMBER: US08/049,531
; FILING DATE: 20-APR-1993
; APPLICATION NUMBER: US07/344,237
; FILING DATE: 26-APR-1989
; APPLICATION NUMBER: US07/191,229
; FILING DATE: 06-MAY-1988
; APPLICATION NUMBER: US07/206,499
; FILING DATE: 13-JUN-1988
; APPLICATION NUMBER: US07/258,016
; FILING DATE: 14-OCT-1988
; APPLICATION NUMBER: US08/272,271
; FILING DATE: 8-JUL-1994
; APPLICATION NUMBER: US07/616,369
; FILING DATE: 21-NOV-1990
; APPLICATION NUMBER: US07/573,643
; FILING DATE: 27-AUG-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: James P. Hillman Esq.
; REGISTRATION NUMBER: 29748
; REFERENCE/DOCKET NUMBER: 55467/69
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (510) 651 3991
; TELEFAX: (510) 651 5991
; TELEX:
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 378 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Genomic DNA
; HYPOTHEtical: no
; ANTI-SENSE: no
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 16-375
; US-08-931-855B-13
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Query Match 12.4%; Score 43; DB 3; Length 378;
Best Local Similarity 100.0%; Pred. No. 1.2e-11;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 212 CCGAGGCGAGGTCCTGGGCTCAGCCGGGTACCCCTTGGCCCT 254
DB 227 CCGAGGCGAGGTCCTGGGCTCAGCCGGGTACCCCTTGGCCCT 269

RESULT 4

US-08-441-971-60
; Sequence 60, Application US/08441971
; Patent No. 6071693
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,971
FILING DATE: 16-MAY-1995
CLASSIFICATION: 435

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
APPLICATION NUMBER: US/07/881,528
FILING DATE:

APPLICATION NUMBER: 07/697,326

FILING DATE: 8 May 1991

ATTORNEY/AGENT INFORMATION:

NAME: Janiuk, Anthony J.

REGISTRATION NUMBER: 29,809

REFERENCE/DOCKET NUMBER: C0772/7000

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 720-3500

TELEFAX: (617) 720-2441

TELEX: EZEKIEL

INFORMATION FOR SEQ ID NO: 60:

SEQUENCE CHARACTERISTICS:

LENGTH: 549 nucleotides

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA

ORIGINAL SOURCE:

INDIVIDUAL ISOLATE: nac5

US-08-441-971-60

Query Match 12.4%; Score 43; DB 3; Length 549;
Best Local Similarity 100.0%; Pred. No. 1.2e-11;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 212 CCGAGGCGAGGTCCTGGGCTCAGCCGGGTACCCCTTGGCCCT 254
DB 212 CCGAGGCGAGGTCCTGGGCTCAGCCGGGTACCCCTTGGCCCT 254

RESULT 5

US-08-221-653-60
; Sequence 60, Application US/08221653

Patent No. 6190864
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: WordPerfect 5.1

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,653
FILING DATE:
CLASSIFICATION: 435

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/881,528
FILING DATE:
APPLICATION NUMBER: 07/697,326

FILING DATE: 8 May 1991

ATTORNEY/AGENT INFORMATION:

NAME: Janiuk, Anthony J.

REGISTRATION NUMBER: 29,809

REFERENCE/DOCKET NUMBER: C0772/7000

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 720-3500

TELEFAX: (617) 720-2441

TELEX: EZEKIEL

INFORMATION FOR SEQ ID NO: 60:

SEQUENCE CHARACTERISTICS:

LENGTH: 549 nucleotides

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA

ORIGINAL SOURCE:

INDIVIDUAL ISOLATE: nac5

US-08-221-653-60

Query Match 12.4%; Score 43; DB 3; Length 549;
Best Local Similarity 100.0%; Pred. No. 1.2e-11;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 212 CCGAGGCGAGGTCCTGGGCTCAGCCGGGTACCCCTTGGCCCT 254
DB 212 CCGAGGCGAGGTCCTGGGCTCAGCCGGGTACCCCTTGGCCCT 254

RESULT 6

US-08-442-144A-60
; Sequence 60, Application US/08442144A
; Patent No. 6214583
; GENERAL INFORMATION:

APPLICANT: Tai-An Cha

APPLICANT: Eileen Beall

APPLICANT: Bruce Irvine

APPLICANT: Janice Kolberg

APPLICANT: Michael S. Urdea

TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR

TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS

NUMBER OF SEQUENCES: 148

CORRESPONDENCE ADDRESS:

ADDRESSEE: Chiron Corporation

STREET: 4560 Horton Street

CITY: Emeryville

STATE: California

; COUNTRY: USA
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 Inch
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows NT
; SOFTWARE: Microsoft Word 97
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/442,144A
; FILING DATE: MAY 16, 1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/221,653
; FILING DATE: APRIL 1, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Doreen Yanko Trujillo
; REGISTRATION NUMBER: 35,719
; REFERENCE/DOCKET NUMBER: CHIR-0121
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-568-3100
; TELEFAX: 215-568-3439
; TELEX:
; INFORMATION FOR SEQ ID NO: 60:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 549 Nucleotides
; TYPE: Nucleic Acid
; STRANDEDNESS: Single
; TOPOLOGY: Linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: nacs
; US-08-442-144A-60

Query Match 12.4%; Score 43; DB 3; Length 549;
Best Local Similarity 100.0%; Pred. No. 1.2e-11;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGGCCCT 254
|||||
Db 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGGCCCT 254
|||||

RESULT 7
US-08-441-970-60
; Sequence 60, Application US/08441970
; Patent No. 6297370
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch
; COMPUTER: IBM compatible
; OPERATING SYSTEM: MS-DOS Version 3.3
; SOFTWARE: Wordperfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441,970
; FILING DATE: 16-MAY-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/881,528
; FILING DATE: 08-MAY-1992
; APPLICATION NUMBER: 07/697,326
; FILING DATE: 8 MAY 1991
; ATTORNEY/AGENT INFORMATION:

; NAME: Janiuk, Anthony J.
; REGISTRATION NUMBER: 29,809
; REFERENCE/DOCKET NUMBER: C0772/7000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 720-3500
; TELEFAX: (617) 720-2441
; TELEX: EZEKIEL
; INFORMATION FOR SEQ ID NO: 60:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 549 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: nacs
; US-08-441-970-60

Query Match 12.4%; Score 43; DB 3; Length 549;
Best Local Similarity 100.0%; Pred. No. 1.2e-11;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGGCCCT 254
|||||
Db 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGGCCCT 254
|||||

RESULT 8
US-08-290-665A-141
; Sequence 141, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; AND THE USE OF REAGENTS DERIVED FROM THESE
; SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 141:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homopiens
; INDIVIDUAL ISOLATE: Z1

US-08-290-665A-141

Query Match 12.4%; Score 43; DB 2; Length 573;
Best Local Similarity 100.0%; Pred. No. 1.2e-11;
Matches 43; Conservative 0; Mismatches 0; Gaps 0; Indels 0;

QY 212 CCGAGGCGAGTCTGGGCTCAGCCGGGTACCCCTTGGCCCT 254
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Db 212 CCGAGGCGAGTCTGGGCTCAGCCGGGTACCCCTTGGCCCT 254
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RESULT 9

US-09-194-949A-5
; Sequence 5, Application US/091949A-5
; Patent No. 6653125
; GENERAL INFORMATION:
; APPLICANT: Merck & Co., Inc.
; APPLICANT: Donnelly, John J.
; APPLICANT: Fu, Tong-Ming
; APPLICANT: Liu, Margaret A.
; APPLICANT: Shiver, John W.
; TITLE OF INVENTION: SYNTHETIC HEPATITIS C GENES
; FILE REFERENCE: 19732YP
; CURRENT APPLICATION NUMBER: US/09/194,949A
; CURRENT FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: PCT/US97/09884
; PRIOR FILING DATE: 1997-06-06
; PRIOR APPLICATION NUMBER: 60/020,494
; PRIOR FILING DATE: 1996-06-11
; PRIOR APPLICATION NUMBER: 60/033,534
; PRIOR FILING DATE: 1996-12-20
; PRIOR APPLICATION NUMBER: 08/865,823
; PRIOR FILING DATE: 1997-05-30
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 573
; TYPE: DNA
; ORGANISM: Hepatitis C Virus
US-09-194-949A-5

Query Match 12.4%; Score 43; DB 3; Length 573;
Best Local Similarity 100.0%; Pred. No. 1.2e-11;
Matches 43; Conservative 0; Mismatches 0; Gaps 0; Indels 0;

QY 212 CCGAGGCGAGTCTGGGCTCAGCCGGGTACCCCTTGGCCCT 254
|||||

Db 212 CCGAGGCGAGTCTGGGCTCAGCCGGGTACCCCTTGGCCCT 254
|||||

RESULT 10

PCT-US95-10398-141
; Sequence 141, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R. H. AND
; APPLICANT: PURCELL, R. H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/10398
FILING DATE: 15-AUG-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/086,428
FILING DATE: 29 JUNE 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/290/665
FILING DATE: 15 AUGUST 1994
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 141:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: Z1
PCT-US95-10398-141

Query Match 12.4%; Score 43; DB 6; Length 573;
Best Local Similarity 100.0%; Pred. No. 1.2e-11;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 212 CCGAGGCGAGTCTGGGCTCAGCCGGGTACCCCTTGGCCCT 254
|||||

Db 212 CCGAGGCGAGTCTGGGCTCAGCCGGGTACCCCTTGGCCCT 254
|||||

RESULT 11

US-08-836-075A-65
; Sequence 65, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7

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;
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 65:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 831 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; US-08-836-075A-65

Query Match 12.4%; Score 43; DB 3; Length 831;
Best Local Similarity 100.0%; Pred. No. 1.2e-11;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGGCCCT 254
|
Db 227 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGGCCCT 269

RESULT 12
US-08-290-665A-142
; Sequence 142, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION:
; INFORMATION FOR SEQ ID NO: 142:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z5
; US-08-290-665A-142

Query Match 12.4%; Score 43; DB 3; Length 831;
Best Local Similarity 100.0%; Pred. No. 1.2e-11;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGGCCCT 254
|
Db 227 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGGCCCT 269

RESULT 12
US-08-290-665A-142
; Sequence 142, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION:
; INFORMATION FOR SEQ ID NO: 142:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z5
; US-08-290-665A-142
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Query Match 11.6%; Score 40; DB 2; Length 573;
Best Local Similarity 100.0%; Pred. No. 3.7e-10;
Matches 40; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGGCC 251
|
Db 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGGCC 251

RESULT 13
PCT-US95-10398-142
; Sequence 142, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 142:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z5
; PCT-US95-10398-142

Query Match 11.6%; Score 40; DB 6; Length 573;
Best Local Similarity 100.0%; Pred. No. 3.7e-10;
Matches 40; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGGCC 251
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Db 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGGCC 251

RESULT 14
US-08-290-665A-136
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; Sequence 136, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 136:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: S52
; US-08-290-665A-136

Query Match 11.0%; Score 38; DB 2; Length 573;
Best Local Similarity 100.0%; Pred. No. 3.6e-09;
Matches 38; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 262 AATGAGGGCTGCGGGTGGGCGAGGGTGGCTCTCTGTCCCC 299
Db 262 AATGAGGGCTGCGGGTGGGCGAGGGTGGCTCTCTGTCCCC 299

RESULT 15
PCT-US95-10398-136
; Sequence 136, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
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; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 136:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: S52
; PCT-US95-10398-136

Query Match 11.0%; Score 38; DB 6; Length 573;
Best Local Similarity 100.0%; Pred. No. 3.6e-09;
Matches 38; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 262 AATGAGGGCTGCGGGTGGGCGAGGGTGGCTCTCTGTCCCC 299
Db 262 AATGAGGGCTGCGGGTGGGCGAGGGTGGCTCTCTGTCCCC 299

Search completed: January 30, 2006, 01:45:55
Job time : 146 secs
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OM nucleic - nucleic search, using sw model

Run on: January 30, 2006, 01:36:39 ; Search time 807 Seconds
(without alignments)
3545.483 Million cell updates/sec

Title: US-09-873-224B-147
Perfect score: 346
Sequence: 1 atgagcacactctctaacc.....aaatgaccccgccgagga 346

Scoring table: OLIGO NUC
Gapop 60.0, Gapext 60.0

Searched: 9793542 seqs, 4134689005 residues

Word size : 0
Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Published Applications NA Main:
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2: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq.*
3: /cgn2_6/ptodata/1/pubpna/US09A_PUBCOMB.seq.*
4: /cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq.*
5: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq.*
6: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq.*
7: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq.*
8: /cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq.*
9: /cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq.*
10: /cgn2_6/ptodata/1/pubpna/US11_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	296	85.5	345	3	US-09-873-224-147
2	296	85.5	346	3	US-09-899-046-147
3	296	85.5	346	3	US-09-878-281-147
4	260	75.1	309	3	US-09-851-138-49
5	43	12.4	378	8	US-10-677-956-13
6	43	12.4	573	3	US-09-194-949-5
7	43	12.4	573	9	US-10-664-391-5
8	43	12.4	831	3	US-09-851-138-65
9	31	9.0	152	3	US-09-921-397-39
10	31	9.0	234	3	US-09-921-397-41
11	31	9.0	300	6	US-10-071-867-16
12	31	9.0	310	3	US-09-921-397-114
13	31	9.0	327	3	US-09-851-138-1
14	31	9.0	339	3	US-09-921-397-115
15	31	9.0	360	3	US-09-306-780-3
16	31	9.0	378	8	US-10-677-956-7
17	31	9.0	378	8	US-10-677-956-9
18	31	9.0	450	3	US-09-306-780-5
19	31	9.0	480	6	US-10-071-867-15
20	31	9.0	480	9	US-10-664-038-11
21	31	9.0	480	9	US-10-664-038-12
22	31	9.0	480	9	US-10-664-038-13
23	31	9.0	480	9	US-10-664-038-14

24	31	9.0	480	9	US-10-664-038-15	Sequence 15, Appl
25	31	9.0	480	9	US-10-664-038-16	Sequence 16, Appl
26	31	9.0	483	3	US-09-306-780-7	Sequence 7, Appl
27	31	9.0	499	9	US-10-664-038-2	Sequence 2, Appl
28	31	9.0	528	3	US-09-306-780-19	Sequence 19, Appl
29	31	9.0	540	6	US-10-150-283-2	Sequence 2, Appl
30	31	9.0	573	3	US-09-306-780-9	Sequence 9, Appl
31	31	9.0	595	7	US-10-601-020-1	Sequence 1, Appl
32	31	9.0	595	9	US-10-897-680A-1	Sequence 1, Appl
33	31	9.0	708	6	US-10-365-620-57	Sequence 57, Appl
34	31	9.0	708	8	US-10-912-969-59	Sequence 59, Appl
35	31	9.0	750	6	US-10-365-620-53	Sequence 53, Appl
36	31	9.0	750	8	US-10-912-969-55	Sequence 55, Appl
37	31	9.0	843	3	US-09-306-780-11	Sequence 11, Appl
38	31	9.0	1380	6	US-10-365-620-59	Sequence 59, Appl
39	31	9.0	1380	8	US-10-912-969-61	Sequence 61, Appl
40	31	9.0	1380	8	US-10-913-171-40	Sequence 40, Appl
41	31	9.0	1422	6	US-10-365-620-55	Sequence 55, Appl
42	31	9.0	1422	8	US-10-912-969-57	Sequence 57, Appl
43	31	9.0	1422	8	US-10-913-171-38	Sequence 38, Appl
44	31	9.0	2025	6	US-10-387-336-8	Sequence 8, Appl
45	31	9.0	2031	6	US-10-387-336-7	Sequence 7, Appl

ALIGNMENTS

RESULT 1
US-09-873-224-147
; Sequence 147, Application US/09873224
; Publication No. US20030064360A1
; GENERAL INFORMATION:
; APPLICANT: <Unknown>
; TITLE OF INVENTION: New sequences of hepatitis C virus
; NUMBER OF SEQUENCES: 270
; CORRESPONDENCE ADDRESS:
; STREET: Industriepark Zwijnaarde 7, box 4
; CITY: Ghent
; COUNTRY: Belgium
; ZIP: B-9052
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/873,224
; FILING DATE: 05-Jun-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Innogenetics sa.
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 00 32 9 241 07 11
; TELEFAX: 00 32 9 241 07 99
; INFORMATION FOR SEQ ID NO: 147:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 345 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..345
; FEATURE:
; NAME/KEY: mat peptide
; LOCATION: 1..342

```
;
SEQUENCE DESCRIPTION: SEQ ID NO: 147:
US-09-873-224-147
Query Match      85.5%; Score 296; DB 3; Length 345;
Best Local Similarity 100.0%; Pred. No. 1.6e-146;
Matches 296; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 51 CCGGCCACAGGACGTTAAGTTCCAGAGCGCGCGTCCAGATCGTGTGGAGTTTACGTGCT 110
Db 50 CCGGCCACAGGACGTTAAGTTCCAGAGCGCGCGTCCAGATCGTGTGGAGTTTACGTGCT 109
QY 111 ACCACGCGAGGCGCCCGCAGTTGGGTGCGTGCAGTGGCGAAGCTTCCGAGCGGTCCGA 170
Db 110 ACCACGCGAGGCGCCCGCAGTTGGGTGCGTGCAGTGGCGAAGCTTCCGAGCGGTCCGA 169
QY 171 ACCTCGCAGTAGCGCCCAACCATCCCGAGGCGCGCGCAACCCGAGGCGCGTCCGCT 230
Db 170 ACCTCGCAGTAGCGCCCAACCATCCCGAGGCGCGCGCAACCCGAGGCGCGTCCGCT 229
QY 231 TCAGCCCGGGTACCTTGGCCCTATATGGGAATGAGGGCTGCGGGTGGCGAGGTTGGCT 290
Db 230 TCAGCCCGGGTACCTTGGCCCTATATGGGAATGAGGGCTGCGGGTGGCGAGGTTGGCT 289
QY 291 CCTGTCCCGCGCGGCTCTCGCCCTGCTGGGGCCCAATGACCCCGCGCGCAGGA 346
Db 290 CCTGTCCCGCGCGGCTCTCGCCCTGCTGGGGCCCAATGACCCCGCGCGCAGGA 345

RESULT 2
US-09-899-046-147
; Sequence 147, Application US/09899046
; Publication No. US2003008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 147:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 346 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..346
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 1..342
US-09-899-046-147
Query Match      85.5%; Score 296; DB 3; Length 346;
Best Local Similarity 100.0%; Pred. No. 1.6e-146;
Matches 296; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 51 CCGGCCACAGGACGTTAAGTTCCAGAGCGCGCGTCCAGATCGTGTGGAGTTTACGTGCT 110
Db 50 CCGGCCACAGGACGTTAAGTTCCAGAGCGCGCGTCCAGATCGTGTGGAGTTTACGTGCT 109
QY 111 ACCACGCGAGGCGCCCGCAGTTGGGTGCGTGCAGTGGCGAAGCTTCCGAGCGGTCCGA 170
Db 110 ACCACGCGAGGCGCCCGCAGTTGGGTGCGTGCAGTGGCGAAGCTTCCGAGCGGTCCGA 169
QY 171 ACCTCGCAGTAGCGCCCAACCATCCCGAGGCGCGCGCAACCCGAGGCGCGTCCGCT 230
Db 170 ACCTCGCAGTAGCGCCCAACCATCCCGAGGCGCGCGCAACCCGAGGCGCGTCCGCT 229
QY 231 TCAGCCCGGGTACCTTGGCCCTATATGGGAATGAGGGCTGCGGGTGGCGAGGTTGGCT 290
Db 230 TCAGCCCGGGTACCTTGGCCCTATATGGGAATGAGGGCTGCGGGTGGCGAGGTTGGCT 289
QY 291 CCTGTCCCGCGCGGCTCTCGCCCTGCTGGGGCCCAATGACCCCGCGCGCAGGA 346
Db 290 CCTGTCCCGCGCGGCTCTCGCCCTGCTGGGGCCCAATGACCCCGCGCGCAGGA 345

RESULT 3
US-09-878-281-147
; Sequence 147, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/878,281
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 147:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 346 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..346
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 1..342
US-09-878-281-147
Query Match      85.5%; Score 296; DB 3; Length 346;
Best Local Similarity 100.0%; Pred. No. 1.6e-146;
Matches 296; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 51 CCGGCCACAGGACGTTAAGTTCCAGAGCGCGCGTCCAGATCGTGTGGAGTTTACGTGCT 110
Db 50 CCGGCCACAGGACGTTAAGTTCCAGAGCGCGCGTCCAGATCGTGTGGAGTTTACGTGCT 110
QY 111 ACCACGCGAGGCGCCCGCAGTTGGGTGCGTGCAGTGGCGAAGCTTCCGAGCGGTCCGA 170
Db 110 ACCACGCGAGGCGCCCGCAGTTGGGTGCGTGCAGTGGCGAAGCTTCCGAGCGGTCCGA 170
QY 171 ACCTCGCAGTAGCGCCCAACCATCCCGAGGCGCGCGCAACCCGAGGCGCGTCCGCT 230
Db 170 ACCTCGCAGTAGCGCCCAACCATCCCGAGGCGCGCGCAACCCGAGGCGCGTCCGCT 230
QY 231 TCAGCCCGGGTACCTTGGCCCTATATGGGAATGAGGGCTGCGGGTGGCGAGGTTGGCT 290
Db 230 TCAGCCCGGGTACCTTGGCCCTATATGGGAATGAGGGCTGCGGGTGGCGAGGTTGGCT 290
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QY 291 CTGTGCCCCCGCGGCTCTGCCCCGCTGTGGGGCCCAAAATGACCCCGCGCAGGA 346
|
|
|
Db 291 CTGTGCCCCCGCGGCTCTGCCCCGCTGTGGGGCCCAAAATGACCCCGCGCAGGA 346
|
|
|

RESULT 4

US-09-851-138-49
; Sequence 49, Application US/09851138
; Publication No. US20020183508A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GERT
; STUDYER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/851,138
; FILING DATE: 09-May-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/836,075
; FILING DATE: <Unknown>
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 49:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 309 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; SEQUENCE DESCRIPTION: SEQ ID NO: 49:

Query Match 75.1%; Score 260; DB 3; Length 309;
Best Local Similarity 100.0%; Pred. No. 2e-127;
Matches 260; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 51 CCGGCCACAGGAGCTTAAGTTCCAGGCGCGGTACAGTCGTTGGTGGAGTTTACGTGCT 110
|
|
|
Db 50 CCGGCCACAGGAGCTTAAGTTCCAGGCGCGGTACAGTCGTTGGTGGAGTTTACGTGCT 109
|
|
|
QY 111 ACCACGACGAGGCCCCCAGTTGGTGTGCGTGCAGTCCGACGACTTCCGAGCGGTCCGA 170
|
|
|
Db 110 ACCACGACGAGGCCCCCAGTTGGTGTGCGTGCAGTCCGACGACTTCCGAGCGGTCCGA 169
|
|
|
QY 171 ACTTCGAGTAGGCGCCAAACCATCCCGAGGCGCCGAAACCGAGGCGAGGTCTCTGGGC 230
|
|
|
Db 170 ACTTCGAGTAGGCGCCAAACCATCCCGAGGCGCCGAAACCGAGGCGAGGTCTCTGGGC 229
|
|
|
QY 231 TCAGCCCGGGTACCTCTGCCCCCTATATGGAATGAGGCTCGCGGTGGGCGAGGGTGGCT 290
|
|
|

Db 230 TCAGCCCGGGTACCTCTGCCCCCTATATGGAATGAGGCTCGCGGTGGGCGAGGGTGGCT 289
QY 291 CTGTGCCCCCGCGGCTCTC 310
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|
|
Db 290 CTGTGCCCCCGCGGCTCTC 309
|
|
|

RESULT 5

US-10-677-956-13
; Sequence 13, Application US/10677956
; Publication No. US20040214163A1
; GENERAL INFORMATION:
; APPLICANT: ZEBEDEE, SUZANNE
; INCHAUSPE, GENEVIEVE
; NASOFF, MARC S.
; PRINCE, ALFRED M.
; HELTING, TORSTEN B.
; DREVIN, HAKAN
; NUNN, MICHAEL F.
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR PRODUCING
; RECOMBINANT VIRAL ANTIGENS
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: James P. Hillman
; STREET: 45010 Pawnee Drive
; CITY: Fremont
; STATE: CA
; COUNTRY: USA
; ZIP: 94539
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy Disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 5.0 Dos Txt
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/677,956
; FILING DATE: 01-Oct-2003
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/931,855B
; FILING DATE: Sep 16, 1997
; APPLICATION NUMBER: US08/563,733
; FILING DATE: 8-NOV-1995
; APPLICATION NUMBER: US08/049,531
; FILING DATE: 20-APR-1993
; APPLICATION NUMBER: US07/344,237
; FILING DATE: 26-APR-1989
; APPLICATION NUMBER: US07/191,229
; FILING DATE: 06-MAY-1988
; APPLICATION NUMBER: US07/206,499
; FILING DATE: 13-JUN-1988
; APPLICATION NUMBER: US07/258,016
; FILING DATE: 14-OCT-1988
; APPLICATION NUMBER: US08/272,271
; FILING DATE: 8-JUL-1994
; APPLICATION NUMBER: US07/616,369
; FILING DATE: 21-NOV-1990
; APPLICATION NUMBER: US07/573,643
; FILING DATE: 27-AUG-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: James P. Hillman Esq.
; REGISTRATION NUMBER: 29748
; REFERENCE/DOCKET NUMBER: 55467/69
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (510) 651 3991
; TELEFAX: (510) 651 5991
; TELEX: <Unknown>
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 378 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear

; MOLECULE TYPE: Genomic DNA
; HYPOTHETICAL: no
; ANTI-SENSE: no
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 16-375
; SEQUENCE DESCRIPTION: SEQ ID NO: 13:
US-10-677-956-13

Query Match 12.4%; Score 43; DB 8; Length 378;
Best Local Similarity 100.0%; Pred. No. 2.8e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGGCCCT 254
|||||
Db 227 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGGCCCT 269
|||||

RESULT 6

US-09-194-949-5
; Sequence 5, Application US/09194949
; Publication No. US20030053987A1
; GENERAL INFORMATION:

; APPLICANT: Merck & Co., Inc.
; APPLICANT: Donnelly, John J.
; APPLICANT: Fu, Tong-Ming
; APPLICANT: Liu, Margaret A.
; APPLICANT: Shiver, John W.

; TITLE OF INVENTION: SYNTHETIC HEPATITIS C GENES

; CURRENT APPLICATION NUMBER: US/09/194,949
; CURRENT FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: PCT/US97/09884
; PRIOR FILING DATE: 1997-06-06
; PRIOR APPLICATION NUMBER: 60/020,494
; PRIOR FILING DATE: 1996-06-11
; PRIOR APPLICATION NUMBER: 60/033,534
; PRIOR FILING DATE: 1996-12-20
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: Fast-Seq for Windows Version 4.0
; SEQ ID NO 5

; TYPE: DNA
; ORGANISM: Hepatitis C Virus
US-09-194-949-5

Query Match 12.4%; Score 43; DB 3; Length 573;
Best Local Similarity 100.0%; Pred. No. 2.7e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGGCCCT 254
|||||
Db 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGGCCCT 254
|||||

RESULT 7

US-10-664-391-5
; Sequence 5, Application US/10664391
; Publication No. US20050074752A1
; GENERAL INFORMATION:

; APPLICANT: Donnelly, John J.
; APPLICANT: Liu, Margaret A.
; APPLICANT: Shiver, John W.
; APPLICANT: Fu, Tong-Ming

; TITLE OF INVENTION: SYNTHETIC HEPATITIS C GENES

; CURRENT APPLICATION NUMBER: US/10/664,391
; CURRENT FILING DATE: 2003-09-17
; PRIOR APPLICATION NUMBER: PCT/US97/09884
; PRIOR FILING DATE: 1997-06-06
; PRIOR APPLICATION NUMBER: 60/033,534
; PRIOR FILING DATE: 1996-12-20
; PRIOR APPLICATION NUMBER: 60/020,494

; PRIOR FILING DATE: 1996-06-11
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 573
; TYPE: DNA
; ORGANISM: Hepatitis C Virus
US-10-664-391-5

Query Match 12.4%; Score 43; DB 9; Length 573;
Best Local Similarity 100.0%; Pred. No. 2.7e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGGCCCT 254
|||||
Db 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGGCCCT 254
|||||

RESULT 8

US-09-851-138-65
; Sequence 65, Application US/09851138
; Publication No. US20020183508A1
; GENERAL INFORMATION:

; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN

; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

; AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC AGENTS

; NUMBER OF SEQUENCES: 207

; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Microsoft Word 6.0 / ASCII text output

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/851,138

; FILING DATE: 09-May-2001

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/836,075

; FILING DATE: <Unknown>

; APPLICATION NUMBER: EP 94870166.9

; FILING DATE: 21 Oct 1994

; APPLICATION NUMBER: EP 95870076.7

; FILING DATE: 28 Jun 1995

; ATTORNEY/AGENT INFORMATION:

; NAME: KAMMERER, PATRICIA A.

; REGISTRATION NUMBER: 29,775

; REFERENCE/DOCKET NUMBER: INNS:004

; INFORMATION FOR SEQ ID NO: 65:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 831 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: cDNA

; HYPOTHETICAL: NO

; ANTI-SENSE: NO

; SEQUENCE DESCRIPTION: SEQ ID NO: 65:

Query Match 12.4%; Score 43; DB 3; Length 831;
Best Local Similarity 100.0%; Pred. No. 2.6e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 212 CCGAGGGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGGCCCT 254
|||||

Db 227 CCGAGGCGCAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGCCCCCT 269

RESULT 9

US-09-921-397-39
; Sequence 39, Application US/09921397
; Patent No. US20020151484A1
; GENERAL INFORMATION:
; APPLICANT: HYBRIGENICS
; TITLE OF INVENTION: SID nucleic acids and polypeptides selected from a
; TITLE OF INVENTION: pathogenic strain of the hepatitis C virus and
; TITLE OF INVENTION: applications thereof
; FILE REFERENCE: B4809A - JAZ
; CURRENT APPLICATION NUMBER: US/09/921,397
; CURRENT FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: EP 00402225.7
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 156
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 39
; LENGTH: 152
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-09-921-397-39

Query Match 9.0%; Score 31; DB 3; Length 152;
Best Local Similarity 100.0%; Pred. No. 7.2e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 224 CTTGGGCTCAGCCCGGGTACCTTGCCCCCT 254
DB 120 CTTGGGCTCAGCCCGGGTACCTTGCCCCCT 150

RESULT 10

US-09-921-397-41
; Sequence 41, Application US/09921397
; Patent No. US20020151484A1
; GENERAL INFORMATION:
; APPLICANT: HYBRIGENICS
; TITLE OF INVENTION: SID nucleic acids and polypeptides selected from a
; TITLE OF INVENTION: pathogenic strain of the hepatitis C virus and
; TITLE OF INVENTION: applications thereof
; FILE REFERENCE: B4809A - JAZ
; CURRENT APPLICATION NUMBER: US/09/921,397
; CURRENT FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: EP 00402225.7
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 156
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 41
; LENGTH: 234
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-09-921-397-41

Query Match 9.0%; Score 31; DB 3; Length 234;
Best Local Similarity 100.0%; Pred. No. 6.9e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 224 CTTGGGCTCAGCCCGGGTACCTTGCCCCCT 254
DB 186 CTTGGGCTCAGCCCGGGTACCTTGCCCCCT 216

RESULT 11

US-10-071-867-16
; Sequence 16, Application US/10071867
; Publication No. US20030166267A1
; GENERAL INFORMATION:
; APPLICANT: CreaGene Inc.
; TITLE OF INVENTION: METHOD FOR IMPROVING GENETIC STABILITY OF FOREIGN INSERT
; NUCLEOTIDE SEQUENCE IN RECOMBINANT SINGLE-STRANDED RNA VIRUS

; FILE REFERENCE: CreaGene-USA-1
; CURRENT APPLICATION NUMBER: US/10/071,867
; CURRENT FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: KR 2001-6229
; PRIOR FILING DATE: 2001-02-08
; NUMBER OF SEQ ID NOS: 95
; SOFTWARE: Kopatentin 1.71
; SEQ ID NO 16
; LENGTH: 300
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: HCV core-100
US-10-071-867-16

Query Match 9.0%; Score 31; DB 6; Length 300;
Best Local Similarity 100.0%; Pred. No. 6.7e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 224 CTTGGGCTCAGCCCGGGTACCTTGCCCCCT 254
DB 224 CTTGGGCTCAGCCCGGGTACCTTGCCCCCT 254

RESULT 12

US-09-921-397-114
; Sequence 114, Application US/09921397
; Patent No. US20020151484A1
; GENERAL INFORMATION:
; APPLICANT: HYBRIGENICS
; TITLE OF INVENTION: SID nucleic acids and polypeptides selected from a
; TITLE OF INVENTION: pathogenic strain of the hepatitis C virus and
; TITLE OF INVENTION: applications thereof
; FILE REFERENCE: B4809A - JAZ
; CURRENT APPLICATION NUMBER: US/09/921,397
; CURRENT FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: EP 00402225.7
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 156
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 114
; LENGTH: 310
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-09-921-397-114

Query Match 9.0%; Score 31; DB 3; Length 310;
Best Local Similarity 100.0%; Pred. No. 6.7e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 224 CTTGGGCTCAGCCCGGGTACCTTGCCCCCT 254
DB 264 CTTGGGCTCAGCCCGGGTACCTTGCCCCCT 294

RESULT 13

US-09-851-138-1
; Sequence 1, Application US/09851138
; Publication No. US20020183508A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GERT
; STUDYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433

```
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/851,138
; FILING DATE: 09-May-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/836,075
; FILING DATE: <Unknown>
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 327 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-851-138-1
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Query Match          9.0%; Score 31; DB 3; Length 327;
Best Local Similarity 100.0%; Pred. No. 6.7e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 212 CCGAGGCGAGTCTCTGGGCTCAGCCGGGTA 242
Db 212 CCGAGGCGAGTCTCTGGGCTCAGCCGGGTA 242
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RESULT 14

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; Sequence 115, Application US/09921397
; Patent No. US20020151484A1
; GENERAL INFORMATION:
```

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; APPLICANT: HYBRIGENICS
; TITLE OF INVENTION: SID nucleic acids and polypeptides selected from a
; TITLE OF INVENTION: pathogenic strain of the hepatitis C virus and
; TITLE OF INVENTION: applications thereof
; FILE REFERENCE: B4809A - JAZ
; CURRENT APPLICATION NUMBER: US/09/921,397
; CURRENT FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: EP 00402225.7
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 156
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 115
; LENGTH: 339
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-09-921-397-115
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Best Local Similarity 100.0%; Pred. No. 6.6e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 224 CCGGGCTCAGCCGGGTACCTTGGCCCT 254
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RESULT 15

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US-09-306-780-3
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; Sequence 3, Application US/09306780
; Publication No. US20010051336A1
; GENERAL INFORMATION:
; APPLICANT: TAKEMURA, FUMINORI
; UENO, EIICHI
; ITOH, SATORU
; TITLE OF INVENTION: NUCLEIC ACID-BOUND POLYPEPTIDE, METHOD
; OF PRODUCING NUCLEIC ACID-BOUND POLYPEPTIDE AND
; IMMUNOASSAY USING THE POLYPEPTIDE.
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT,
; P.C.
; STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, SUITE 400
; CITY: ARLINGTON
; STATE: VA
; COUNTRY: U.S.A.
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/306,780
; FILING DATE: 07-May-1999
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/841,657A
; FILING DATE: 30-APR-1997
; APPLICATION NUMBER: JP 8-134444
; FILING DATE: 01-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: OBLON, NORMAN F.
; REGISTRATION NUMBER: 24,618
; REFERENCE/DOCKET NUMBER: 2084-033-0
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 413-3000
; TELEFAX: (703) 413-2220
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 360 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "synthetic DNA"
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..360
; SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-306-780-3
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Best Local Similarity 100.0%; Pred. No. 6.6e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Copyright (c) 1993 - 2006 Bioceleration Ltd.

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	31	9.0	2253	US-10-985-205-5	Sequence 5, Appl
3	31	9.0	2428	US-10-985-205-2	Sequence 2, Appl
4	31	9.0	2442	US-10-985-205-4	Sequence 4, Appl
5	31	9.0	9599	US-10-985-205-1	Sequence 1, Appl
6	24	6.9	109	US-10-993-625A-32	Sequence 32, Appl
7	19	5.5	1821	US-10-750-185-28024	Sequence 28024, A
8	19	5.5	1821	US-10-750-623-28024	Sequence 28024, A
9	19	5.5	3646	US-10-793-626-4401	Sequence 4401, A
10	18	5.2	787	US-10-750-185-57960	Sequence 57960, A
11	18	5.2	787	US-10-750-623-57960	Sequence 57960, A
12	18	5.2	134174	US-11-121-086-99	Sequence 99, Appl
13	17	4.9	23	US-10-310-914A-871644	Sequence 871644, A
14	17	4.9	201	US-10-995-561-9950	Sequence 9950, Ap
15	17	4.9	201	US-10-995-561-9961	Sequence 9961, Ap
16	17	4.9	201	US-10-995-561-9968	Sequence 9968, Ap
17	17	4.9	201	US-10-995-561-9969	Sequence 9969, Ap
18	17	4.9	201	US-10-995-561-9970	Sequence 9970, Ap
19	17	4.9	201	US-10-995-561-9972	Sequence 9972, Ap
20	17	4.9	201	US-10-995-561-9987	Sequence 9987, Ap
21	17	4.9	201	US-10-995-561-9998	Sequence 9998, Ap
22	17	4.9	201	US-10-995-561-10005	Sequence 10005, A

23	17	4.9	201	7	US-10-995-561-10006	Sequence 10006, A
24	17	4.9	201	7	US-10-995-561-10008	Sequence 10008, A
25	17	4.9	201	7	US-10-995-561-10009	Sequence 10009, A
26	17	4.9	201	7	US-10-995-561-10023	Sequence 10023, A
27	17	4.9	201	7	US-10-995-561-10033	Sequence 10033, A
28	17	4.9	201	7	US-10-995-561-10040	Sequence 10040, A
29	17	4.9	201	7	US-10-995-561-10041	Sequence 10041, A
30	17	4.9	201	7	US-10-995-561-10042	Sequence 10042, A
31	17	4.9	201	7	US-10-995-561-10044	Sequence 10044, A
32	17	4.9	201	7	US-10-995-561-10062	Sequence 10062, A
33	17	4.9	201	7	US-10-995-561-10073	Sequence 10073, A
34	17	4.9	201	7	US-10-995-561-10080	Sequence 10080, A
35	17	4.9	201	7	US-10-995-561-10081	Sequence 10081, A
36	17	4.9	201	7	US-10-995-561-10083	Sequence 10083, A
37	17	4.9	201	7	US-10-995-561-10084	Sequence 10084, A
38	17	4.9	201	7	US-10-995-561-52875	Sequence 52875, A
39	17	4.9	201	7	US-10-995-561-53068	Sequence 53068, A
40	17	4.9	201	7	US-10-995-561-53082	Sequence 53082, A
41	17	4.9	201	7	US-10-995-561-53084	Sequence 53084, A
42	17	4.9	201	7	US-10-995-561-53085	Sequence 53085, A
43	17	4.9	201	7	US-10-995-561-53087	Sequence 53087, A
44	17	4.9	752	7	US-10-750-185-51638	Sequence 51638, A
45	17	4.9	752	7	US-10-750-623-51638	Sequence 51638, A

ALIGNMENTS

RESULT 1
US-10-528-644A-50
; Sequence 50, Application US/10528644A
; Publication No. US20050287117A1
; GENERAL INFORMATION:
; APPLICANT: SUNG, Young Chul
; APPLICANT: YOUN, Jin-Won
; APPLICANT: YANG, Se-Hwan
; APPLICANT: PARK, Su-Hwan
; APPLICANT: LEE, Chang Guen
; TITLE OF INVENTION: A VACCINE ENHANCING THE PROTECTIVE IMMUNITY TO
; TITLE OF INVENTION: HEPATITIS C VIRUS USING PLASMID DNA AND RECOMBINANT ADENOVIRUS
; FILE REFERENCE: 428.1049
; CURRENT APPLICATION NUMBER: US/10/528,644A
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: PCT/KR03/01951
; PRIOR FILING DATE: 2003-11-19
; PRIOR APPLICATION NUMBER: KR 2002-0058712
; PRIOR FILING DATE: 2002-09-27
; PRIOR APPLICATION NUMBER: KR 2002-68496
; PRIOR FILING DATE: 2002-11-06
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: KopatentIn 1.71
; SEQ ID NO 50
; LENGTH: 2178
; TYPE: DNA
; ORGANISM: Hepatitis C virus and Herpes Simplex Virus (gds7st)
US-10-528-644A-50
Query Match 9.0%; Score 31; DB 7; Length 2178;
Best Local Similarity 100.0%; Pred. No. 2.6e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 224 CCTGGGCTCAGCCGGGTACCTTCGCCCT 254
DB 212 CCTGGGCTCAGCCGGGTACCTTCGCCCT 242
RESULT 2
US-10-985-205-5
; Sequence 5, Application US/10985205
; Publication No. US20050266400A1
; GENERAL INFORMATION:
; APPLICANT: Dumonceaux, Julie
; APPLICANT: Cormier, Emmanuel G.

```
; APPLICANT: Gardner, Jason P.
; APPLICANT: Dragic, Tatjana
; TITLE OF INVENTION: NOVEL SEQUENCES ENCODING HEPATITIS C VIRUS GLYCOPROTEINS
; FILE REFERENCE: 71242-A/JPW/AJD
; CURRENT APPLICATION NUMBER: US/10/985,205
; CURRENT FILING DATE: 2004-11-09
; PRIOR APPLICATION NUMBER: US 60/519,536
; PRIOR FILING DATE: 2003-11-12
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 2253
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-10-985-205-5

Query Match          9.0%; Score 31; DB 7; Length 2253;
Best Local Similarity 100.0%; Pred. No. 2.6e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 224 CCTGGGCTCAGCCCGGGTACCCCTTGCCCT 254
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Db 230 CCTGGGCTCAGCCCGGGTACCCCTTGCCCT 260

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US-10-985-205-2
; Sequence 2, Application US/10985205
; Publication No. US20050266400A1
; GENERAL INFORMATION:
; APPLICANT: Dumonceaux, Julie
; APPLICANT: Cormier, Emmanuel G.
; APPLICANT: Gardner, Jason P.
; APPLICANT: Dragic, Tatjana
; TITLE OF INVENTION: NOVEL SEQUENCES ENCODING HEPATITIS C VIRUS GLYCOPROTEINS
; FILE REFERENCE: 71242-A/JPW/AJD
; CURRENT APPLICATION NUMBER: US/10/985,205
; CURRENT FILING DATE: 2004-11-09
; PRIOR APPLICATION NUMBER: US 60/519,536
; PRIOR FILING DATE: 2003-11-12
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 2428
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-10-985-205-2

Query Match          9.0%; Score 31; DB 7; Length 2428;
Best Local Similarity 100.0%; Pred. No. 2.6e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 4
US-10-985-205-4
; Sequence 4, Application US/10985205
; Publication No. US20050266400A1
; GENERAL INFORMATION:
; APPLICANT: Dumonceaux, Julie
; APPLICANT: Cormier, Emmanuel G.
; APPLICANT: Gardner, Jason P.
; APPLICANT: Dragic, Tatjana
; TITLE OF INVENTION: NOVEL SEQUENCES ENCODING HEPATITIS C VIRUS GLYCOPROTEINS
; FILE REFERENCE: 71242-A/JPW/AJD
; CURRENT APPLICATION NUMBER: US/10/985,205
; CURRENT FILING DATE: 2004-11-09
; PRIOR APPLICATION NUMBER: US 60/519,536
; PRIOR FILING DATE: 2003-11-12
; NUMBER OF SEQ ID NOS: 20
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; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; LENGTH: 2442
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-10-985-205-4

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Db 230 CCTGGGCTCAGCCCGGGTACCCCTTGCCCT 260

RESULT 5
US-10-985-205-1
; Sequence 1, Application US/10985205
; Publication No. US20050266400A1
; GENERAL INFORMATION:
; APPLICANT: Dumonceaux, Julie
; APPLICANT: Cormier, Emmanuel G.
; APPLICANT: Gardner, Jason P.
; APPLICANT: Dragic, Tatjana
; TITLE OF INVENTION: NOVEL SEQUENCES ENCODING HEPATITIS C VIRUS GLYCOPROTEINS
; FILE REFERENCE: 71242-A/JPW/AJD
; CURRENT APPLICATION NUMBER: US/10/985,205
; CURRENT FILING DATE: 2004-11-09
; PRIOR APPLICATION NUMBER: US 60/519,536
; PRIOR FILING DATE: 2003-11-12
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 9599
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-10-985-205-1

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Best Local Similarity 100.0%; Pred. No. 2.6e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 224 CCTGGGCTCAGCCCGGGTACCCCTTGCCCT 254
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Db 565 CCTGGGCTCAGCCCGGGTACCCCTTGCCCT 595

RESULT 6
US-10-993-625A-32
; Sequence 32, Application US/10993625A
; Publication No. US20050272053A1
; GENERAL INFORMATION:
; APPLICANT: Allelogic Biosciences, Inc.
; TITLE OF INVENTION: Oligonucleotides Labeled with a Plurality of Fluorophores
; FILE REFERENCE: 62001-2
; CURRENT APPLICATION NUMBER: US/10/993,625A
; CURRENT FILING DATE: 2004-11-19
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 32
; LENGTH: 109
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-10-993-625A-32

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Best Local Similarity 100.0%; Pred. No. 0.0099;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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US-10-750-185-28024/c
; Sequence 28024, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; PRIOR FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 28024
; LENGTH: 1821
; TYPE: DNA
; ORGANISM: Bovine 19866808081997
US-10-750-185-28024

Query Match      5.5%; Score 19; DB 7; Length 1821;
Best Local Similarity 100.0%; Pred. No. 3.6;
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QY 23 AAAGAAAAACCAAAAGAAA 41
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Db 943 AAAGAAAAACCAAAAGAAA 925

RESULT 8
US-10-750-623-28024/c
; Sequence 28024, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; PRIOR FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 28024
; LENGTH: 1821
; TYPE: DNA
; ORGANISM: Bovine 19866808081997
US-10-750-623-28024

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Db 943 AAAGAAAAACCAAAAGAAA 925

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; Sequence 57960, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; PRIOR FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 57960
; LENGTH: 787
; TYPE: DNA
; ORGANISM: Bovine 19866881233146
US-10-750-185-57960

Query Match      5.2%; Score 18; DB 7; Length 787;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 30 AACCAAAAGAAACACCAA 47
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Db 567 AACCAAAAGAAACACCAA 550

RESULT 11
US-10-750-623-57960/c
; Sequence 57960, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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4	98	86.0	115	2	US-09-878-281A-148
5	44	38.6	124	1	US-08-244-116B-15
6	44	38.6	166	2	US-09-878-281A-164
7	44	38.6	191	1	US-08-290-665A-187
8	44	38.6	191	1	US-08-290-665A-188
9	44	38.6	191	1	US-08-290-665A-189
10	44	38.6	191	1	US-08-290-665A-190
11	44	38.6	191	1	US-08-290-665A-191
12	44	38.6	191	1	US-08-290-665A-192

13	44	38.6	191	1	US-08-290-665A-193	Sequence 193, App
14	44	38.6	191	1	US-08-290-665A-195	Sequence 195, App
15	44	38.6	191	1	US-08-290-665A-196	Sequence 196, App
16	44	38.6	191	1	US-08-290-665A-197	Sequence 197, App
17	44	38.6	191	4	PCT-US95-10398-187	Sequence 187, App
18	44	38.6	191	4	PCT-US95-10398-188	Sequence 188, App
19	44	38.6	191	4	PCT-US95-10398-189	Sequence 189, App
20	44	38.6	191	4	PCT-US95-10398-190	Sequence 190, App
21	44	38.6	191	4	PCT-US95-10398-191	Sequence 191, App
22	44	38.6	191	4	PCT-US95-10398-192	Sequence 192, App
23	44	38.6	191	4	PCT-US95-10398-193	Sequence 193, App
24	44	38.6	191	4	PCT-US95-10398-195	Sequence 195, App
25	44	38.6	191	4	PCT-US95-10398-196	Sequence 196, App
26	44	38.6	191	4	PCT-US95-10398-197	Sequence 197, App
27	44	38.6	319	2	US-08-635-886C-217	Sequence 217, App
28	44	38.6	319	2	US-08-635-886C-219	Sequence 219, App
29	44	38.6	319	2	US-08-974-690C-217	Sequence 217, App
30	44	38.6	319	2	US-08-974-690C-219	Sequence 219, App
31	38	33.3	120	2	US-08-931-855B-14	Sequence 14, Appl
32	37	32.5	191	1	US-08-290-665A-194	Sequence 194, App
33	37	32.5	191	4	PCT-US95-10398-194	Sequence 194, App
34	36	31.6	166	2	US-09-878-281A-194	Sequence 194, App
35	34	29.8	42	2	US-08-380-160-10	Sequence 10, Appl
36	34	29.8	46	1	US-08-262-037-27	Sequence 27, Appl
37	34	29.8	56	1	US-08-262-037-28	Sequence 28, Appl
38	34	29.8	61	1	US-07-681-703B-24	Sequence 24, Appl
39	34	29.8	89	1	US-08-407-410B-24	Sequence 24, Appl
40	34	29.8	89	1	US-08-485-500-24	Sequence 24, Appl
41	34	29.8	89	4	PCT-US91-02370-24	Sequence 24, Appl
42	34	29.8	119	1	US-07-681-703B-18	Sequence 18, Appl
43	34	29.8	119	1	US-08-407-410B-18	Sequence 18, Appl
44	34	29.8	119	1	US-08-485-500-18	Sequence 18, Appl
45	34	29.8	119	1	US-08-485-500-18	Sequence 18, Appl

ALIGNMENTS

RESULT 1
US-08-836-075A-50
; Sequence 50, Application US/08836075A
; Patent No. 6180768
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; TITLE OF INVENTION: AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSER: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,075A
; FILING DATE: 21 Apr 1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP95/04155
; FILING DATE: 23 Oct 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:

```
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 50:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-836-075A-50

Alignment Scores:
Pred. No.: 1,74e-98 Length: 115
Score: 114.00 Matches: 115
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 2 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-836-075A-50 (1-115)
QY 1 ATGAGCACACCTTCTAAACCAAGAAAAAAGAAAAACCAACCAACCCGCGCCACAG 60
DB 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn**ArgProGln 20
QY 61 GACGTTAAGTTCCAGCGCGCGTCAGATCGTTGGTGGAGTTTACGTGCTACCGCAGG 120
DB 21 AspValLysPheProGlyGlyGlyGlnIleValGlyValTyrValLeuProArgArg 40
QY 121 GCGCCCAAGTGGGTGTCGTCAGTCCGAGGCGCGCAACCAAGAAAAACCAACCAACCCGCGG 180
DB 41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGlnProArgSer 60
QY 181 AGGCGCCCAACCCATCCCGCGCGCGCGCAACCAAGAAAAACCAACCAACCCGCGG 240
DB 61 ArgArgGlnProLysProArgAlaValArgLysThrSerGluArgSerGlnProArgSer 80
QY 241 TACCTTGGCCCTATATGGGAATGAGGCTCGCGGTGGCAGGTGGCTCTCTGTCCCG 300
DB 81 TyrProTyrProLeuTyrGlyAsnGlyCysGlyTyrAlaGlyTyrLeuLeuSerPro 100
QY 301 CGCGGCTCTCGCGTCTGGGGCCCAATGACCCCGCGCAGG 345
DB 101 ArgGlySerArgProSerTyrGlyProAsnAspProArgArgArg 115
```

```
RESULT 2
; Sequence 233, Application US/08635886C
; Patent No. 6555114
; GENERAL INFORMATION:
; APPLICANT: LEROUX-ROELS, Geert
; APPLICANT: DELEYS, Robert
; APPLICANT: MAERTENS, Geert
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
; FILE REFERENCE: 2752-18
; CURRENT APPLICATION NUMBER: US/08/635,886C
; CURRENT FILING DATE: 1996-04-25
; PRIOR APPLICATION NUMBER: PCT/EP94/03555
; PRIOR FILING DATE: 1994-10-28
; PRIOR APPLICATION NUMBER: EP 93402718.6
; PRIOR FILING DATE: 1993-11-04
; NUMBER OF SEQ ID NOS: 286
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 233
; LENGTH: 100
; TYPE: PRT
; ORGANISM: hepatitis C virus
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (17)-(17)
; OTHER INFORMATION: Xaa is any amino acid
US-08-635-886C-233

Alignment Scores:
Pred. No.: 1,74e-98 Length: 100
Score: 99.00 Matches: 100
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 86.84% Indels: 0
DB: 2 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-635-886C-233 (1-100)
QY 1 ATGAGCACACCTTCTAAACCAAGAAAAAAGAAAAACCAACCAACCCGCGCCACAG 60
DB 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn**ArgProGln 20
```

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Alignment Scores:
Pred. No.: 1,97e-84 Length: 100
Score: 99.00 Matches: 100
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 86.84% Indels: 0
DB: 2 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-635-886C-233 (1-100)
```

```
QY 1 ATGAGCACACCTTCTAAACCAAGAAAAAAGAAAAACCAACCAACCCGCGCCACAG 60
DB 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn**ArgProGln 20
QY 61 GACGTTAAGTTCCAGCGCGCGTCAGATCGTTGGTGGAGTTTACGTGCTACCGCAGG 120
DB 21 AspValLysPheProGlyGlyGlyGlnIleValGlyValTyrValLeuProArgArg 40
QY 121 GCGCCCAAGTGGGTGTCGTCAGTCCGAGGCGCGCAACCAAGAAAAACCAACCAACCCGCGG 180
DB 41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGlnProArgSer 60
QY 181 AGGCGCCCAACCCATCCCGCGCGCGCGCAACCAAGAAAAACCAACCAACCCGCGG 240
DB 61 ArgArgGlnProLysProArgAlaValArgLysThrSerGluArgSerTyrAlaGlnProGly 80
QY 241 TACCTTGGCCCTATATGGGAATGAGGCTCGCGGTGGCAGGTGGCTCTCTGTCCCG 300
DB 81 TyrProTyrProLeuTyrGlyAsnGlyCysGlyTyrAlaGlyTyrLeuLeuSerPro 100
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RESULT 3
US-08-974-690C-233
; Sequence 233, Application US/08974690C
; Patent No. 6613333
; GENERAL INFORMATION:
; APPLICANT: LEROUX-ROELS, Geert
; APPLICANT: DELEYS, Robert
; APPLICANT: MAERTENS, Geert
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
; FILE REFERENCE: 2551-94
; CURRENT APPLICATION NUMBER: US/08/974,690C
; CURRENT FILING DATE: 1997-11-19
; PRIOR APPLICATION NUMBER: PCT/EP94/03555
; PRIOR FILING DATE: 1994-10-28
; PRIOR APPLICATION NUMBER: EP 93402718.6
; PRIOR FILING DATE: 1993-11-04
; NUMBER OF SEQ ID NOS: 286
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 233
; LENGTH: 100
; TYPE: PRT
; ORGANISM: hepatitis C virus
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (17)-(17)
; OTHER INFORMATION: Xaa is any amino acid
US-08-974-690C-233
```

```
Alignment Scores:
Pred. No.: 1,97e-84 Length: 100
Score: 99.00 Matches: 100
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 86.84% Indels: 0
DB: 2 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-974-690C-233 (1-100)
```

```
QY 1 ATGAGCACACCTTCTAAACCAAGAAAAAAGAAAAACCAACCAACCCGCGCCACAG 60
DB 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn**ArgProGln 20
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; CURRENT APPLICATION NUMBER: US/09/878,281A
; CURRENT FILING DATE: 2001-06-12
; NUMBER OF SEQ ID NOS: 284
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 164
; LENGTH: 166
; TYPE: PRP
; ORGANISM: hepatitis C virus
US-09-878-281A-164

Alignment Scores:
Pred. No.: 5,878-33 Length: 166
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.60% Indels: 0
DB: 2 Gaps: 0

US-09-873-224B-147 (1-346) x US-09-878-281A-164 (1-166)
QY 214 GAGGCGAGGTCTGGGCTCAGCCCGGTACCCCTTGGCCCTATATGGGAATGAGGGCTGC 273
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTyrProLeuTyrGlyAsnGluGlyCys 91
QY 274 GGTGGGCGAGGTGGCTCTGTCCCGCGCGGCTCTCGCCGCTCGTGGGGCCCAATGAC 333
Db 92 GlyTrpAlaGlyTrpLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY 334 CCCCGCGCGAGG 345
Db 112 ProArgArgArg 115

RESULT 7
US-08-290-665A-187
; Sequence 187, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 187:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:

; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: HK10
US-08-290-665A-187

Alignment Scores:
Pred. No.: 5,75e-33 Length: 191
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.60% Indels: 0
DB: 1 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-290-665A-187 (1-191)
QY 214 GAGGCGAGGTCTGGGCTCAGCCCGGTACCCCTTGGCCCTATATGGGAATGAGGGCTGC 273
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTyrProLeuTyrGlyAsnGluGlyCys 91
QY 274 GGTGGGCGAGGTGGCTCTGTCCCGCGCGGCTCTCGCCGCTCGTGGGGCCCAATGAC 333
Db 92 GlyTrpAlaGlyTrpLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY 334 CCCCGCGCGAGG 345
Db 112 ProArgArgArg 115

RESULT 8
US-08-290-665A-188
; Sequence 188, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 188:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
```

```
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: S22
US-08-290-665A-188

Alignment Scores:
Pred. No.: 5,75e-33 Length: 191
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.60% Indels: 0
DB: 1 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-290-665A-188 (1-191)

QY 214 GAGGGCAGGTCTCTGGCTCAGCCCGGTACCCCTTGGCCCTATATGGGAATGAGGGCTGC 273
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
QY 274 GGGTGGGCGAGGTGGCTCTCTGTCCTCCCGCGGGCTCTCGCCCTCGTGGGGCCCAATGAC 333
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY 334 CCCCAGCGCAGG 345
Db 112 ProArgArgArg 115

RESULT 9
US-08-290-665A-189
; Sequence 189, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELEPHONE: (212) 751-6800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 189:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: S22
US-08-290-665A-189

Alignment Scores:
Pred. No.: 5,75e-33 Length: 191
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.60% Indels: 0
DB: 1 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-290-665A-188 (1-191)

QY 214 GAGGGCAGGTCTCTGGCTCAGCCCGGTACCCCTTGGCCCTATATGGGAATGAGGGCTGC 273
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
QY 274 GGGTGGGCGAGGTGGCTCTCTGTCCTCCCGCGGGCTCTCGCCCTCGTGGGGCCCAATGAC 333
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY 334 CCCCAGCGCAGG 345
Db 112 ProArgArgArg 115

RESULT 10
US-08-290-665A-190
; Sequence 190, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELEPHONE: (212) 751-6800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 190:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: DK12
US-08-290-665A-190

Alignment Scores:
Pred. No.: 5,75e-33 Length: 191
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.60% Indels: 0
DB: 1 Gaps: 0
```


US-09-873-224B-147 (1-346) x US-08-290-665A-192 (1-191)

QY 214 GAGGCGAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGCCCTATATGGGAATGAGGGCTGC 273
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
QY 274 GGGTGGGAGGGTGGCTCTCTGTCGCCCGGGCTCTCGCCCGCTCGTGGGGCCCAATGAC 333
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAep 111
QY 334 CCCCAGCGCAGG 345
Db 112 ProArgArgArg 115

RESULT 13

US-08-290-665A-193
; Sequence 193, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154

COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 751-6849
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 193:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z1
US-08-290-665A-193

Alignment Scores:
Pred. No.: 5,75e-33 Length: 191
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.60% Indels: 0
DB: 1 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-290-665A-193 (1-191)

QY 214 GAGGCGAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGCCCTATATGGGAATGAGGGCTGC 273

Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
QY 274 GGGTGGGAGGGTGGCTCTCTGTCGCCCGGGCTCTCGCCCGCTCGTGGGGCCCAATGAC 333
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAep 111
QY 334 CCCCAGCGCAGG 345
Db 112 ProArgArgArg 115

RESULT 14

US-08-290-665A-195
; Sequence 195, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; NUMBER OF SEQUENCES: 283
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154

COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 751-6849
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 195:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z6
US-08-290-665A-195

Alignment Scores:
Pred. No.: 5,75e-33 Length: 191
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.60% Indels: 0
DB: 1 Gaps: 0

US-09-873-224B-147 (1-346) x US-08-290-665A-195 (1-191)

QY 214 GAGGCGAGGTCTCTGGGCTCAGCCCGGGTACCCCTTGCCCTATATGGGAATGAGGGCTGC 273

Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91

GenCore version 5.1.6
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Run on: January 28, 2006, 04:48:07 ; Search time 59.5 Seconds
(without alignments)
4859.460 Million cell updates/sec

Title: US-09-873-224B-147
Perfect score: 114
Sequence: 1 atgagcacactctctaaacc.....aatgaccccgccgagga 346

Scoring table: OLIGO
Xgapop 60.0 , Xgapext 60.0
Ygapop 60.0 , Ygapext 60.0
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 1867569 seqs, 417829326 residues
Word size: 1

Total number of hits satisfying chosen parameters: 3572506
Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

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-MINMATCH=0.1 -LOOPEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=oligo
-TRANS=human40.cdi -LIST=45 -DOCALIGN=200 -THR SCORE=quality -THR MIN=1
-ALIGN=15 -MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0
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-FGAPOP=6 -FGAPEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEXT=7

Database : Published Applications AA Main:
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3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pcp:*
4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pcp:*
5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pcp:*
6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pcp:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	114	100.0	115	3	US-09-851-138-50
2	114	100.0	115	3	Sequence 50, Appl
3	114	100.0	115	3	Sequence 148, App
4	99	86.8	100	4	Sequence 148, App
5	98	86.0	115	3	Sequence 233, App
6	44	38.6	124	4	US-10-651-165-233
7	44	38.6	166	3	US-09-873-224-148
8	44	38.6	166	3	US-10-396-964-15
9	44	38.6	166	3	US-09-899-046-164
10	44	38.6	166	3	Sequence 164, App
11	44	38.6	189	4	Sequence 164, App
12	44	38.6	319	4	US-09-873-224-164
					Sequence 9, Appl
					Sequence 217, App
					Sequence 219, App

13	38	33.3	120	4	US-10-677-956-14	Sequence 14, Appl
14	38	33.3	130	4	US-10-268-569-19	Sequence 19, Appl
15	38	33.3	161	4	US-10-230-381-5	Sequence 5, Appl
16	38	33.3	191	4	US-10-230-381-53	Sequence 53, Appl
17	38	33.3	191	4	US-10-230-381-54	Sequence 54, Appl
18	38	33.3	191	4	US-10-230-381-55	Sequence 55, Appl
19	38	33.3	193	4	US-10-230-381-50	Sequence 50, Appl
20	38	33.3	193	4	US-10-230-381-51	Sequence 51, Appl
21	38	33.3	193	4	US-10-230-381-52	Sequence 52, Appl
22	38	33.3	209	4	US-10-230-381-3	Sequence 3, Appl
23	38	33.3	209	4	US-10-230-381-7	Sequence 7, Appl
24	38	33.3	373	4	US-10-230-381-11	Sequence 11, Appl
25	38	33.3	373	4	US-10-230-381-13	Sequence 13, Appl
26	38	33.3	373	4	US-10-230-381-15	Sequence 15, Appl
27	36	31.6	166	3	US-09-899-046-194	Sequence 194, App
28	36	31.6	166	3	US-09-878-281-194	Sequence 194, App
29	36	31.6	166	3	US-09-873-224-194	Sequence 194, App
30	34	29.8	113	3	US-09-921-397-78	Sequence 78, Appl
31	34	29.8	120	4	US-10-677-956-8	Sequence 8, Appl
32	34	29.8	120	4	US-10-677-956-10	Sequence 10, Appl
33	34	29.8	120	6	US-11-126-662-2	Sequence 2, Appl
34	34	29.8	122	4	US-10-098-857B-1	Sequence 1, Appl
35	34	29.8	126	3	US-09-899-046-166	Sequence 166, App
36	34	29.8	126	3	US-09-878-281-166	Sequence 166, App
37	34	29.8	126	3	US-09-873-224-166	Sequence 166, App
38	34	29.8	151	4	US-10-292-129-14	Sequence 14, Appl
39	34	29.8	182	3	US-09-929-955-2	Sequence 2, Appl
40	34	29.8	182	4	US-10-104-966-2	Sequence 2, Appl
41	34	29.8	182	4	US-10-719-619-2	Sequence 2, Appl
42	34	29.8	182	5	US-10-817-591-2	Sequence 2, Appl
43	34	29.8	190	4	US-10-268-562-1	Sequence 1, Appl
44	34	29.8	190	4	US-10-450-649-7	Sequence 7, Appl
45	34	29.8	191	5	US-10-770-117-2	Sequence 2, Appl

ALIGNMENTS

RESULT 1
US-09-851-138-50
; Sequence 50, Application US/09851138
; Publication No. US20020183508A1
; GENERAL INFORMATION:
APPLICANT: MAERTENS, GERT
STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESS: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/851,138
FILING DATE: 09-May-2001
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/836,075
FILING DATE: <Unknown>
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775

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; ; REFERENCE/DOCKET NUMBER: INNS:004
; ; INFORMATION FOR SEQ ID NO: 50:
; ; SEQUENCE CHARACTERISTICS:
; ; LENGTH: 115 amino acids
; ; TYPE: amino acid
; ; TOPOLOGY: linear
; ; MOLECULE TYPE: peptide
; ; SEQUENCE DESCRIPTION: SEQ ID NO: 50:
US-09-851-138-50

Alignment Scores:
Pred. No.: 8.72e-97 Length: 115
Score: 114.00 Matches: 115
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 3 Gaps: 0

US-09-873-224B-147 (1-346) x US-09-851-138-50 (1-115)
QY 1 ATGAGCACACTTCTTAACCAACAAAGAAAAACCAAAAGAAAAACCAACCAACCCGCGCCACAG 60
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn***ArgProGln 20
QY 61 GACGTTAAGTTCCAGCGCGCGTCAGATCGTTGGTGAGTTTACGTGCTACCGCAGG 120
Db 21 AspValLysPheProGlyGlyGlnIleValGlyGlyValTyrValLeuProArgArg 40
QY 121 GCGCCCAAGTTGGGTGCTGCGTGCAGTCCGGAAGACTTCCGAGCGGTCCCAACCTCGCAGT 180
Db 41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGlnProArgSer 60
QY 181 AGCGCCCAACCATCCCGCGCGCGCGCAACCGAGGCGAGTCTCGAGCGGTCCGCAACCTCGCAGT 240
Db 61 ArgArgGlnProLeuProArgAlaArgThrGluGlyArgSerTrpAlaGlnProGly 80
QY 241 TACCTTTGGCCCTTATATGGGAATGAGGGCTGCGGGTGGCGAGGTGGCTCTGTCTCCCG 300
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 301 CGCGGCTCTCGCGCTGCTGGGGCCCAATGACCCCGCGCAGG 345
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

RESULT 2
US-09-899-046-148
; Sequence 148, Application US/09899046
; Publication No. US20030008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 148:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-899-046-148

Alignment Scores:
Pred. No.: 8.72e-97 Length: 115
Score: 114.00 Matches: 115
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 3 Gaps: 0

US-09-873-224B-147 (1-346) x US-09-851-138-50 (1-115)
QY 1 ATGAGCACACTTCTTAACCAACAAAGAAAAACCAAAAGAAAAACCAACCAACCCGCGCCACAG 60
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn***ArgProGln 20
QY 61 GACGTTAAGTTCCAGCGCGCGTCAGATCGTTGGTGAGTTTACGTGCTACCGCAGG 120
Db 21 AspValLysPheProGlyGlyGlnIleValGlyGlyValTyrValLeuProArgArg 40
QY 121 GCGCCCAAGTTGGGTGCTGCGTGCAGTCCGGAAGACTTCCGAGCGGTCCCAACCTCGCAGT 180
Db 41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGlnProArgSer 60
QY 181 AGCGCCCAACCATCCCGCGCGCGCGCAACCGAGGCGAGTCTCGAGCGGTCCGCAACCTCGCAGT 240
Db 61 ArgArgGlnProLeuProArgAlaArgThrGluGlyArgSerTrpAlaGlnProGly 80
QY 241 TACCTTTGGCCCTTATATGGGAATGAGGGCTGCGGGTGGCGAGGTGGCTCTGTCTCCCG 300
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 301 CGCGGCTCTCGCGCTGCTGGGGCCCAATGACCCCGCGCAGG 345
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

RESULT 3
US-09-878-281-148
; Sequence 148, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/878,281
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 148:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-878-281-148

Alignment Scores:
Pred. No.: 8.72e-97 Length: 115
Score: 114.00 Matches: 115
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 3 Gaps: 0

US-09-873-224B-147 (1-346) x US-09-878-281-148 (1-115)
QY 1 ATGAGCACACTTCTTAACCAACAAAGAAAAACCAAAAGAAAAACCAACCAACCCGCGCCACAG 60
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn***ArgProGln 20
QY 61 GACGTTAAGTTCCAGCGCGCGTCAGATCGTTGGTGAGTTTACGTGCTACCGCAGG 120
Db 21 AspValLysPheProGlyGlyGlnIleValGlyGlyValTyrValLeuProArgArg 40
QY 121 GCGCCCAAGTTGGGTGCTGCGTGCAGTCCGGAAGACTTCCGAGCGGTCCCAACCTCGCAGT 180
Db 41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGlnProArgSer 60
QY 181 AGCGCCCAACCATCCCGCGCGCGCGCAACCGAGGCGAGTCTCGAGCGGTCCGCAACCTCGCAGT 240
Db 61 ArgArgGlnProLeuProArgAlaArgThrGluGlyArgSerTrpAlaGlnProGly 80
QY 241 TACCTTTGGCCCTTATATGGGAATGAGGGCTGCGGGTGGCGAGGTGGCTCTGTCTCCCG 300
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 301 CGCGGCTCTCGCGCTGCTGGGGCCCAATGACCCCGCGCAGG 345
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115
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Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn***ArgProGln 20
QY 61 GACGTTAAGTCCAGCGCGCGTACAGATCGTTGGTGGAGTTTACGTGTACCAACGAG 120
Db 21 AspValLysPheProGlyGlyGlyGlnIleValGlyValTrpValLeuProArgArg 40
QY 121 GCGCCCACTTGGTGTGGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGT 180
Db 41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGlnProArgSer 60
QY 181 AGCGCGCAACCCATCCAGCGCGCGCGCAACCGAGCGAGTCTCGGGCTCAGCCCGGG 240
Db 61 ArgArgGlnProLeuProArgAlaValArgThrGluGlyArgSerTrpAlaGlnProGly 80
QY 241 TACCTTGGCCCTATATATGGAATGAGGCTCGGGTGGCGAGGTTGGTCTCTGTCCTCCG 300
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 301 CGGGCTCTCGCCCGTCTGGTGGCGCCCAATGATGACCCCGCGCGAGG 345
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115
RESULT 4
US-10-651-165-233
; Sequence 233, Application US/10651165
; Publication No. US20040047877A1
; GENERAL INFORMATION:
; APPLICANT: LEROUX-ROELS, Geert
; APPLICANT: DELEYS, Robert
; APPLICANT: MAERTENS, Geert
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
; FILE REFERENCE: 2551-94
; CURRENT APPLICATION NUMBER: US/10/651,165
; PRIOR FILING DATE: 2003-09-02
; PRIOR APPLICATION NUMBER: US/08/974,690C
; PRIOR FILING DATE: 1997-11-19
; PRIOR APPLICATION NUMBER: PCT/EP94/03555
; PRIOR FILING DATE: 1994-10-28
; PRIOR APPLICATION NUMBER: EP 93402718.6
; PRIOR FILING DATE: 1993-11-04
; NUMBER OF SEQ ID NOS: 286
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 233
; TYPE: PRT
; ORGANISM: hepatitis C virus
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (17)..(17)
; OTHER INFORMATION: Xaa is any amino acid
US-10-651-165-233
Alignment Scores:
Pred. No.: 7.4e-83 Length: 100
Score: 99.00 Matches: 100
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 86.84% Indels: 0
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Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn***ArgProGln 20
QY 61 GACGTTAAGTCCAGCGCGCGTACAGATCGTTGGTGGAGTTTACGTGTACCAACGAG 120
Db 21 AspValLysPheProGlyGlyGlyGlnIleValGlyValTrpValLeuProArgArg 40
QY 121 GCGCCCACTTGGTGTGGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGT 180

Db 41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGlnProArgSer 60
QY 181 AGCGCGCAACCCATCCAGCGCGCGCGCAACCGAGCGAGTCTCGGGCTCAGCCCGGG 240
Db 61 ArgArgGlnProLeuProArgAlaValArgThrGluGlyArgSerTrpAlaGlnProGly 80
QY 241 TACCTTGGCCCTATATATGGAATGAGGCTCGGGTGGCGAGGTTGGTCTCTGTCCTCCG 300
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
RESULT 5
US-09-873-224-148
; Sequence 148, Application US/09873224
; Publication No. US20030064360A1
; GENERAL INFORMATION:
; APPLICANT: <Unknown>
; TITLE OF INVENTION: New sequences of hepatitis C virus
; NUMBER OF SEQUENCES: 270
; CORRESPONDENCE ADDRESS:
; STREET: Industriepark Zwijnaarde 7, box 4
; CITY: Ghent
; COUNTRY: Belgium
; ZIP: B-9052
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/873,224
; FILING DATE: 05-Jun-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Innogenetics sa.
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 00 32 9 241 07 11
; TELEFAX: 00 32 9 241 07 99
; INFORMATION FOR SEQ ID NO: 148:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 148:
US-09-873-224-148
Alignment Scores:
Pred. No.: 6.11e-82 Length: 115
Score: 98.00 Matches: 98
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 85.96% Indels: 0
DB: 3 Gaps: 0
US-09-873-224B-147 (1-346) x US-09-873-224-148 (1-115)
QY 53 GCGCACAGGACGTTAAGTTCCAGCGCGGTCCAGATCGTTGGTGGAGTTTACGTGTAC 112
Db 18 GlyHisArgThrLeuSerSerGlnAlaValArgSerLeuValGluPheThrCysTyr 37
QY 113 CACGAGGGGGCCCCAGTTGGTGTGGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAG 172
Db 38 HisAlaGlyAlaProSerTrpValCysValGlnCysAlaArgLeuProSerGlyArgAsn 57
QY 173 CTCGAGTAGGCGCCCAACCCATCCAGCGCGCGCGAGCCGAGCCGAGGCTCTGGGCTC 232
Db 58 LeuAlaValGlyAlaAsnProSerProGlyArgAlaGluProArgAlaGlyProGlyLeu 77
QY 233 AGCCCGGGTACCCTTGGGCCCTATATGGAATGAGGCTCGGGTGGCGAGGTGGCTCC 292

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Db 78 SerProGlyThrLeuGlyProTyrMetGlyMetArgAlaAlaGlyGlyGlnGlySer 97
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QY 293 TGTCCTCCCGCGGCTCTCCCGCTCGTGGGGCCCAATGACCCCGGCGCAGGA 346
|||||
Db 98 CysProArgAlaAlaLeuAlaArgArgGlyAlaGlnMetThrProGlyAlaGly 115
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RESULT 6
US-10-396-964-15
; Sequence 15, Application US/10396964
; Publication No. US20030198946A1
; GENERAL INFORMATION:
; APPLICANT: Simmonds, Peter
; APPLICANT: Chan, Shu-Wan
; APPLICANT: Yap, Peng L.
; TITLE OF INVENTION: Hepatitis-C Virus Testing
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Bell, Seltzer, Park & Gibson, P.A.
; STREET: 1211 East Morehead Street
; CITY: Charlotte
; STATE: No. US20030198946A1th Carolina
; COUNTRY: United States
; ZIP: 28234
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/396,964
; FILING DATE: 23-MARCH-2003
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/244,116B
; FILING DATE: 15-JUL-1994
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/GB92/02143
; FILING DATE: 20-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Sibley, Kenneth D.
; REGISTRATION NUMBER: 31,665
; REFERENCE/DOCKET NUMBER: 1749-125
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 704-377-1561
; TELEFAX: 704-334-2014
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 124 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHEICAL: yes
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; ORGANISM: Hepatitis-C virus
US-10-396-964-15
Alignment Scores:
Pred. No.: 7,67e-32 Length: 124
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservativeness: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 39.60% Indels: 0
DB: 4 Gaps: 0
US-09-873-224B-147 (1-346) x US-10-396-964-15 (1-124)
QY 214 GAGGCGAGTCTGGGCTCAGCCCGGTACCTTGGCCCTATATGGGAATGAGGCTGC 273
|||||
Db 68 GluGlyArgSerTrpAlaGlnProGlyTyrProTyrProLeuTyrGlyAsnGlyCys 87
|||||
```

```
QY 274 GGTGGCGCAGGTGGCTCTCTGTCCCGCGCGGCTCTCCCGCTCTGGGGGCCCAATGAC 333
|||||
Db 88 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 107
|||||
QY 334 CCCCAGCGCAGG 345
|||||
Db 108 ProArgArgArg 111
|||||
RESULT 7
US-09-899-046-164
; Sequence 164, Application US/09899046
; Publication No. US20030008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 164:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 166 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-899-046-164
Alignment Scores:
Pred. No.: 7,27e-32 Length: 166
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservativeness: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.60% Indels: 0
DB: 3 Gaps: 0
US-09-873-224B-147 (1-346) x US-09-899-046-164 (1-166)
QY 214 GAGGCGAGTCTGGGCTCAGCCCGGTACCTTGGCCCTATATGGGAATGAGGCTGC 273
|||||
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTyrProLeuTyrGlyAsnGlyCys 91
|||||
QY 274 GGTGGCGCAGGTGGCTCTCTGTCCCGCGCGGCTCTCCCGCTCTGGGGGCCCAATGAC 333
|||||
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
|||||
QY 334 CCCCAGCGCAGG 345
|||||
Db 112 ProArgArgArg 115
|||||
RESULT 8
US-09-878-281-164
; Sequence 164, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
```

```
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/878,281
; FILING DATE:
; PRIOR APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 164:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 166 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-878-281-164

Alignment Scores:
Pred. No.: 7,27e-32 Length: 166
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.60% Indels: 0
DB: 3 Gaps: 0

US-09-873-224B-147 (1-346) x US-09-878-281-164 (1-166)

QY 214 GAGGCGAGGTCTCTGGGCTCAGCCCGGGTACCTTGGCCCTATATGGGAATGAGGGCTGC 273
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
QY 274 GGGTGGGCGAGGTGGCTCTGTCGCCCGCGGCTCTCGCCCTCGTGGGGCCCAATGAC 333
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY 334 CCCCGCGCGCAGG 345
Db 112 ProArgArgArg 115

RESULT 9
; Sequence 9, Application US/10450649
; Publication No. US20040052818A1
; GENERAL INFORMATION:
; APPLICANT: Mandl, Christian
; TITLE OF INVENTION: ATTENUATED LIVE VACCINE
; FILE REFERENCE: U 014666-0
; CURRENT APPLICATION NUMBER: US/10/450,649
; PRIOR FILING DATE: 2003-06-16
; PRIOR APPLICATION NUMBER: PCT/AT02/00046
; PRIOR FILING DATE: 2002-02-11
; PRIOR APPLICATION NUMBER: A 272/2001 AT
; PRIOR FILING DATE: 2001-02-21
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 9
; LENGTH: 189
; TYPE: PRT
; ORGANISM: Hepatitis C Virus 3
US-10-450-649-9

Alignment Scores:
Pred. No.: 7,1e-32 Length: 189
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.60% Indels: 0
DB: 4 Gaps: 0

US-09-873-224B-147 (1-346) x US-10-450-649-9 (1-189)

QY 214 GAGGCGAGGTCTCTGGGCTCAGCCCGGGTACCTTGGCCCTATATGGGAATGAGGGCTGC 273
Db 71 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 90
QY 274 GGGTGGGCGAGGTGGCTCTGTCGCCCGCGGCTCTCGCCCTCGTGGGGCCCAATGAC 333
Db 91 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 110
QY 334 CCCCGCGCGCAGG 345
Db 111 ProArgArgArg 114

RESULT 11
US-10-651-165-217
; Sequence 217, Application US/10651165
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;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/878,281
; FILING DATE:
; PRIOR APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 164:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 166 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-878-281-164

Alignment Scores:
Pred. No.: 7,27e-32 Length: 166
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.60% Indels: 0
DB: 3 Gaps: 0

US-09-873-224B-147 (1-346) x US-09-878-281-164 (1-166)

QY 214 GAGGCGAGGTCTCTGGGCTCAGCCCGGGTACCTTGGCCCTATATGGGAATGAGGGCTGC 273
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
QY 274 GGGTGGGCGAGGTGGCTCTGTCGCCCGCGGCTCTCGCCCTCGTGGGGCCCAATGAC 333
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY 334 CCCCGCGCGCAGG 345
Db 112 ProArgArgArg 115

RESULT 9
; Sequence 164, Application US/09873224
; Publication No. US20030064360A1
; GENERAL INFORMATION:
; APPLICANT: <Unknown>
; TITLE OF INVENTION: New sequences of hepatitis C virus
; genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; CORRESPONDENCE ADDRESS:
; STREET: Industriepark Zwijnaarde 7, box 4
; CITY: Ghent
; COUNTRY: Belgium
; ZIP: B-9052
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/873,224
; FILING DATE: 05-Jun-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Innogenetics sa.
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 00 32 9 241 07 11
; TELEFAX: 00 32 9 241 07 99
; INFORMATION FOR SEQ ID NO: 164:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 166 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
```

```
; Publication No. US20040047877A1
; GENERAL INFORMATION:
; APPLICANT: LEROUX-ROELS, Geert
; APPLICANT: DELEYS, Robert
; APPLICANT: MAERTENS, Geert
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
; TITLE OF INVENTION: VIRUS
; FILE REFERENCE: 2551-94
; CURRENT APPLICATION NUMBER: US/10/651,165
; CURRENT FILING DATE: 2003-09-02
; PRIOR APPLICATION NUMBER: US/08/974,690C
; PRIOR FILING DATE: 1997-11-19
; PRIOR APPLICATION NUMBER: PCT/EP94/03555
; PRIOR FILING DATE: 1994-10-28
; PRIOR APPLICATION NUMBER: EP 93402718.6
; PRIOR FILING DATE: 1993-11-04
; NUMBER OF SEQ ID NOS: 286
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 217
; LENGTH: 319
; TYPE: PRT
; ORGANISM: hepatitis C virus
US-10-651-165-217

Alignment Scores:
Pred. No.: 6.46e-32 Length: 319
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.60% Indels: 0
DB: 4 Gaps: 0

US-09-873-224B-147 (1-346) x US-10-651-165-217 (1-319)

QY 214 GAGGSCAGGTCTCGGCTCAGCCGGGTACCTTGCCCTATATGGGAATGAGGGCTGC 273
Db 72 GluGlyArgSerTrpAlaGlnProGlyTrpProTrpProLeuTrpGlyAsnGluGlyCys 91
QY 274 GGGTGGGAGGGTGGCTCTCTGCTCCCGCGCGGCTCTCGCCGCTCGTGGGGCCCAAAATGAC 333
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY 334 CCCGGCGCAGG 345
Db 112 ProArgArgArg 115

RESULT 12
US-10-651-165-219
; Sequence 219, Application US/10651165
; Publication No. US20040047877A1
; GENERAL INFORMATION:
; APPLICANT: LEROUX-ROELS, Geert
; APPLICANT: DELEYS, Robert
; APPLICANT: MAERTENS, Geert
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
; TITLE OF INVENTION: VIRUS
; FILE REFERENCE: 2551-94
; CURRENT APPLICATION NUMBER: US/10/651,165
; CURRENT FILING DATE: 2003-09-02
; PRIOR APPLICATION NUMBER: US/08/974,690C
; PRIOR FILING DATE: 1997-11-19
; PRIOR APPLICATION NUMBER: PCT/EP94/03555
; PRIOR FILING DATE: 1994-10-28
; PRIOR APPLICATION NUMBER: EP 93402718.6
; PRIOR FILING DATE: 1993-11-04
; NUMBER OF SEQ ID NOS: 286
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 219
; LENGTH: 319
; TYPE: PRT
; ORGANISM: hepatitis C virus
US-10-651-165-219

; Publication No. US20040047877A1
; GENERAL INFORMATION:
; APPLICANT: LEROUX-ROELS, Geert
; APPLICANT: DELEYS, Robert
; APPLICANT: MAERTENS, Geert
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
; TITLE OF INVENTION: VIRUS
; FILE REFERENCE: 2551-94
; CURRENT APPLICATION NUMBER: US/10/651,165
; CURRENT FILING DATE: 2003-09-02
; PRIOR APPLICATION NUMBER: US/08/974,690C
; PRIOR FILING DATE: 1997-11-19
; PRIOR APPLICATION NUMBER: PCT/EP94/03555
; PRIOR FILING DATE: 1994-10-28
; PRIOR APPLICATION NUMBER: EP 93402718.6
; PRIOR FILING DATE: 1993-11-04
; NUMBER OF SEQ ID NOS: 286
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 217
; LENGTH: 319
; TYPE: PRT
; ORGANISM: hepatitis C virus
US-10-651-165-217

Alignment Scores:
Pred. No.: 6.46e-32 Length: 319
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.60% Indels: 0
DB: 4 Gaps: 0

US-09-873-224B-147 (1-346) x US-10-651-165-217 (1-319)

QY 214 GAGGSCAGGTCTCGGCTCAGCCGGGTACCTTGCCCTATATGGGAATGAGGGCTGC 273
Db 72 GluGlyArgSerTrpAlaGlnProGlyTrpProTrpProLeuTrpGlyAsnGluGlyCys 91
QY 274 GGGTGGGAGGGTGGCTCTCTGCTCCCGCGCGGCTCTCGCCGCTCGTGGGGCCCAAAATGAC 333
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY 334 CCCGGCGCAGG 345
Db 112 ProArgArgArg 115

RESULT 13
US-10-677-956-14
; Sequence 14, Application US/10677956
; Publication No. US20040214163A1
; GENERAL INFORMATION:
; APPLICANT: ZEBEDEE, SUZANNE
; INCHAUSPE, GENEVIEVE
; NASOFF, MARC S.
; PRINCE, ALFRED M.
; HELTING, TORSTEN B.
; DREVIN, HAKAN
; NUNN, MICHAEL F.
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR PRODUCING
; RECOMBINANT VIRAL ANTIGENS
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: James P. Hillman
; STREET: 45010 Pawnee Drive
; CITY: Fremont
; STATE: CA
; COUNTRY: USA
; ZIP: 94539
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy Disk
; COMPUTER: IBM PC Compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 5.0 Dos Txt
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/677,956
; FILING DATE: 01-Oct-2003
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/931,855B
; FILING DATE: Sep 16, 1997
; APPLICATION NUMBER: US08/563,733
; FILING DATE: 8-NOV-1995
; APPLICATION NUMBER: US08/049,531
; FILING DATE: 20-APR-1993
; APPLICATION NUMBER: US07/344,237
; FILING DATE: 26-APR-1989
; APPLICATION NUMBER: US07/191,229
; FILING DATE: 06-MAY-1988
; APPLICATION NUMBER: US07/206,499
; FILING DATE: 13-JUN-1988
; APPLICATION NUMBER: US07/259,016
; FILING DATE: 14-OCT-1988
; APPLICATION NUMBER: US08/272,271
; FILING DATE: 8-JUL-1994
; APPLICATION NUMBER: US07/616,369
; FILING DATE: 21-NOV-1990
; APPLICATION NUMBER: US07/573,643
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; Publication No. US20040047877A1
; GENERAL INFORMATION:
; APPLICANT: LEROUX-ROELS, Geert
; APPLICANT: DELEYS, Robert
; APPLICANT: MAERTENS, Geert
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
; TITLE OF INVENTION: VIRUS
; FILE REFERENCE: 2551-94
; CURRENT APPLICATION NUMBER: US/10/651,165
; CURRENT FILING DATE: 2003-09-02
; PRIOR APPLICATION NUMBER: US/08/974,690C
; PRIOR FILING DATE: 1997-11-19
; PRIOR APPLICATION NUMBER: PCT/EP94/03555
; PRIOR FILING DATE: 1994-10-28
; PRIOR APPLICATION NUMBER: EP 93402718.6
; PRIOR FILING DATE: 1993-11-04
; NUMBER OF SEQ ID NOS: 286
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 217
; LENGTH: 319
; TYPE: PRT
; ORGANISM: hepatitis C virus
US-10-651-165-217

Alignment Scores:
Pred. No.: 6.46e-32 Length: 319
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.60% Indels: 0
DB: 4 Gaps: 0

US-09-873-224B-147 (1-346) x US-10-651-165-217 (1-319)

QY 214 GAGGSCAGGTCTCGGCTCAGCCGGGTACCTTGCCCTATATGGGAATGAGGGCTGC 273
Db 72 GluGlyArgSerTrpAlaGlnProGlyTrpProTrpProLeuTrpGlyAsnGluGlyCys 91
QY 274 GGGTGGGAGGGTGGCTCTCTGCTCCCGCGCGGCTCTCGCCGCTCGTGGGGCCCAAAATGAC 333
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY 334 CCCGGCGCAGG 345
Db 112 ProArgArgArg 115

RESULT 12
US-10-651-165-219
; Sequence 219, Application US/10651165
; Publication No. US20040047877A1
; GENERAL INFORMATION:
; APPLICANT: LEROUX-ROELS, Geert
; APPLICANT: DELEYS, Robert
; APPLICANT: MAERTENS, Geert
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
; TITLE OF INVENTION: VIRUS
; FILE REFERENCE: 2551-94
; CURRENT APPLICATION NUMBER: US/10/651,165
; CURRENT FILING DATE: 2003-09-02
; PRIOR APPLICATION NUMBER: US/08/974,690C
; PRIOR FILING DATE: 1997-11-19
; PRIOR APPLICATION NUMBER: PCT/EP94/03555
; PRIOR FILING DATE: 1994-10-28
; PRIOR APPLICATION NUMBER: EP 93402718.6
; PRIOR FILING DATE: 1993-11-04
; NUMBER OF SEQ ID NOS: 286
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 219
; LENGTH: 319
; TYPE: PRT
; ORGANISM: hepatitis C virus
US-10-651-165-219

; Publication No. US20040047877A1
; GENERAL INFORMATION:
; APPLICANT: LEROUX-ROELS, Geert
; APPLICANT: DELEYS, Robert
; APPLICANT: MAERTENS, Geert
; TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
; TITLE OF INVENTION: VIRUS
; FILE REFERENCE: 2551-94
; CURRENT APPLICATION NUMBER: US/10/651,165
; CURRENT FILING DATE: 2003-09-02
; PRIOR APPLICATION NUMBER: US/08/974,690C
; PRIOR FILING DATE: 1997-11-19
; PRIOR APPLICATION NUMBER: PCT/EP94/03555
; PRIOR FILING DATE: 1994-10-28
; PRIOR APPLICATION NUMBER: EP 93402718.6
; PRIOR FILING DATE: 1993-11-04
; NUMBER OF SEQ ID NOS: 286
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 217
; LENGTH: 319
; TYPE: PRT
; ORGANISM: hepatitis C virus
US-10-651-165-217

Alignment Scores:
Pred. No.: 6.46e-32 Length: 319
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.60% Indels: 0
DB: 4 Gaps: 0

US-09-873-224B-147 (1-346) x US-10-651-165-217 (1-319)

QY 214 GAGGSCAGGTCTCGGCTCAGCCGGGTACCTTGCCCTATATGGGAATGAGGGCTGC 273
Db 72 GluGlyArgSerTrpAlaGlnProGlyTrpProTrpProLeuTrpGlyAsnGluGlyCys 91
QY 274 GGGTGGGAGGGTGGCTCTCTGCTCCCGCGCGGCTCTCGCCGCTCGTGGGGCCCAAAATGAC 333
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY 334 CCCGGCGCAGG 345
Db 112 ProArgArgArg 115

RESULT 13
US-10-677-956-14
; Sequence 14, Application US/10677956
; Publication No. US20040214163A1
; GENERAL INFORMATION:
; APPLICANT: ZEBEDEE, SUZANNE
; INCHAUSPE, GENEVIEVE
; NASOFF, MARC S.
; PRINCE, ALFRED M.
; HELTING, TORSTEN B.
; DREVIN, HAKAN
; NUNN, MICHAEL F.
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR PRODUCING
; RECOMBINANT VIRAL ANTIGENS
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: James P. Hillman
; STREET: 45010 Pawnee Drive
; CITY: Fremont
; STATE: CA
; COUNTRY: USA
; ZIP: 94539
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy Disk
; COMPUTER: IBM PC Compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 5.0 Dos Txt
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/677,956
; FILING DATE: 01-Oct-2003
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/931,855B
; FILING DATE: Sep 16, 1997
; APPLICATION NUMBER: US08/563,733
; FILING DATE: 8-NOV-1995
; APPLICATION NUMBER: US08/049,531
; FILING DATE: 20-APR-1993
; APPLICATION NUMBER: US07/344,237
; FILING DATE: 26-APR-1989
; APPLICATION NUMBER: US07/191,229
; FILING DATE: 06-MAY-1988
; APPLICATION NUMBER: US07/206,499
; FILING DATE: 13-JUN-1988
; APPLICATION NUMBER: US07/259,016
; FILING DATE: 14-OCT-1988
; APPLICATION NUMBER: US08/272,271
; FILING DATE: 8-JUL-1994
; APPLICATION NUMBER: US07/616,369
; FILING DATE: 21-NOV-1990
; APPLICATION NUMBER: US07/573,643
```

FILING DATE: 27-AUG-1990
ATTORNEY/AGENT INFORMATION:
NAME: James P. Hillman Esq.
REGISTRATION NUMBER: 29748
REFERENCE/DOCKET NUMBER: 55467/69
TELECOMMUNICATION INFORMATION:
TELEPHONE: (510) 651 3991
TELEFAX: (510) 651 5991
TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 120 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 14:
US-10-677-956-14

Alignment Scores:
Pred. No.: 2,85e-26 Length: 120
Score: 38.00 Matches: 38
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 33.33% Indels: 0
DB: 4 Gaps: 0

US-09-873-224B-147 (1-346) x US-10-677-956-14 (1-120)

QY 214 GAGGCGAGTCTCGGCTCAGCCCGGTACCTTGGCCCTATATGGGAATGAGGGCTGC 273
Db 72 GUGLYArgSerTrpAlaGlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCys 91
QY 274 GGGTGGGAGGGTGGCTCTGTCCTCCCGCGCGCTCTCGCCCTCGTGGGGCCCA 327
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyPro 109

RESULT 14
US-10-268-569-19
; Sequence 19, Application US/10268569
; Publication No. US20030152965A1
; GENERAL INFORMATION:
; APPLICANT: Ortho-Clinical Diagnostics, Inc.
; FILE REFERENCE: CDS-0288
; CURRENT FILING DATE: 2002-10-10
; PRIOR APPLICATION NUMBER: 60/347,303
; PRIOR FILING DATE: 2001-11-11
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 19
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Hepatitis C virus
US-10-268-569-19

Alignment Scores:
Pred. No.: 2,81e-26 Length: 130
Score: 38.00 Matches: 38
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 33.33% Indels: 0
DB: 4 Gaps: 0

US-09-873-224B-147 (1-346) x US-10-268-569-19 (1-130)

QY 214 GAGGCGAGTCTCGGCTCAGCCCGGTACCTTGGCCCTATATGGGAATGAGGGCTGC 273
Db 72 GUGLYArgSerTrpAlaGlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCys 91
QY 274 GGGTGGGAGGGTGGCTCTGTCCTCCCGCGCGCTCTCGCCCTCGTGGGGCCCA 327
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyPro 109

RESULT 15
US-10-230-381-5
; Sequence 5, Application US/10230381
; Publication No. US20030152591A1
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New hepatitis C virus genotype 13, and its use as prophylactic,
; FILE OF INVENTION: therapeutic and diagnostic agents
; FILE REFERENCE: INX-124-EP
; CURRENT APPLICATION NUMBER: US/10/230,381
; CURRENT FILING DATE: 2002-08-29
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 161
; TYPE: PRT
; ORGANISM: Hepatitis C virus
US-10-230-381-5
Alignment Scores:
Pred. No.: 2,7e-26 Length: 161
Score: 38.00 Matches: 38
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 33.33% Indels: 0
DB: 4 Gaps: 0
US-09-873-224B-147 (1-346) x US-10-230-381-5 (1-161)
QY 232 CAGCCCGGTACCTTGGCCCTATATGGGAATGAGGGCTCGGGTGGCAGGGTGGCTC 291
Db 78 GlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97
QY 292 CTGTCTCCCGCGCGCTCTGCGCCCTCGTGGGGCCCCAATGACCCCGGCGCAGG 345
Db 98 LeuSerProArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

Search completed: January 28, 2006, 04:59:47
Job time : 61.5 secs

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GenCore version 5.1.6
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OM nucleic - protein search, using frame_plus_n2p model

Run on: January 28, 2006, 04:48:38 ; Search time 7.5 Seconds

(without alignments)
999.163 Million cell updates/sec

Title: US-09-873-224B-147

Perfect score: 114

Sequence: 1 atgagcacactctctaaacc.....aatgacccccgcgagga 346

Scoring table:

OLIGO
Xgapop 60.0 , Xgapext 60.0
Ygapop 60.0 , Ygapext 60.0
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 75621 seqs, 10829074 residues

Word size: 1

Total number of hits satisfying chosen parameters: 143174

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Command line parameters:

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-Q=/cn2_1/USFTO.spool_p/US09873224/runat_27012006_154154_13878/app_query.fasta_1.519
-DB=Published Applications AA New -QMT=fastan -SUFFIX=olin2p.rapbn
-MINMATCH=0.1 -LOOPCL=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=oligo
-TRANS=human40.cdi -LIST=45 -DOCALIGN=200 -THR SCORE=quality -THR MIN=1
-ALIGN=15 -MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0
-MAXLEN=200000000 -USER=US09873224_@CGN_1_1 @runat_27012006_154154_13878
-NCFPU=6 -ICPU=3 -NO MMAP -LARGEQUERY -NEG_SCORES=0 -WAIT -DSFBLOCK=100
-LONGLOG -DRV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=60 -XGAPEXT=60
-FGAPOP=6 -FGAPEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEXT=7

Database : Published Applications AA New.*

- 1: /cn2_6/prodata/2/pubpaa/US08_NEW_PUB.pap.*
- 2: /cn2_6/prodata/2/pubpaa/US06_NEW_PUB.pap.*
- 3: /cn2_6/prodata/2/pubpaa/US07_NEW_PUB.pap.*
- 4: /cn2_6/prodata/2/pubpaa/US09_NEW_PUB.pap.*
- 5: /cn2_6/prodata/2/pubpaa/US10_NEW_PUB.pap.*
- 6: /cn2_6/prodata/2/pubpaa/US11_NEW_PUB.pap.*
- 7: /cn2_6/prodata/2/pubpaa/US12_NEW_PUB.pap.*
- 8: /cn2_6/prodata/2/pubpaa/US13_NEW_PUB.pap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	34	29.8	3011	US-10-985-205-3	Sequence 3, Appli
2	25	21.9	2280	US-11-022-562-211	Sequence 211, App
3	7	6.1	19	US-10-485-788A-611	Sequence 611, App
4	7	6.1	20	US-10-485-788A-612	Sequence 612, App
5	7	6.1	35	US-10-816-768-17	Sequence 17, Appl
6	7	6.2	87	US-09-978-360A-519	Sequence 519, App
7	7	6.1	102	US-10-816-768-87	Sequence 87, Appl
8	7	6.1	102	US-10-816-768-88	Sequence 88, Appl
9	7	6.1	203	US-10-816-768-100	Sequence 100, App
10	7	6.1	371	US-11-166-412-66	Sequence 66, Appl

11	7	6.1	372	6	US-10-650-326B-13	Sequence 13, Appl
12	7	6.1	389	7	US-11-088-686-1	Sequence 1, Appli
13	7	6.1	389	7	US-11-088-686-3	Sequence 3, Appli
14	7	6.1	389	7	US-11-088-686-5	Sequence 5, Appli
15	7	6.1	389	7	US-11-088-686-7	Sequence 7, Appli
16	7	6.1	389	7	US-11-088-686-9	Sequence 9, Appli
17	7	6.1	389	7	US-11-088-686-11	Sequence 11, Appl
18	7	6.1	389	7	US-11-088-686-13	Sequence 13, Appl
19	7	6.2	867	6	US-10-725-475-19	Sequence 19, Appl
20	7	6.1	914	7	US-11-052-554A-160	Sequence 160, App
21	7	6.1	923	7	US-11-052-554A-147	Sequence 147, App
22	7	6.1	943	7	US-11-024-959-487	Sequence 487, App
23	7	6.1	1306	7	US-11-052-554A-139	Sequence 139, App
24	7	6.1	1329	7	US-11-052-554A-136	Sequence 136, App
25	7	6.2	1377	6	US-10-821-234-1070	Sequence 1070, Ap
26	7	6.1	1901	7	US-11-052-554A-135	Sequence 135, App
27	7	6.1	2647	6	US-10-821-234-1303	Sequence 1303, Ap
28	6	5.3	15	6	US-10-962-145C-1	Sequence 1, Appli
29	6	5.3	23	7	US-11-152-366-269	Sequence 269, App
30	6	5.3	36	6	US-10-467-657-3288	Sequence 3288, Ap
31	6	5.3	37	7	US-11-214-199-70	Sequence 70, Appl
32	6	5.3	38	6	US-10-986-501-354	Sequence 354, App
33	6	5.3	38	7	US-11-214-371-8	Sequence 8, Appli
34	6	5.3	45	6	US-10-957-351-92	Sequence 92, Appl
35	6	5.3	50	6	US-10-467-657-1472	Sequence 1472, Ap
36	6	5.3	58	6	US-10-613-744-33	Sequence 33, Appl
37	6	5.3	103	5	US-09-978-360A-767	Sequence 767, App
38	6	5.3	114	7	US-11-124-368A-317	Sequence 317, App
39	6	5.3	114	7	US-11-124-368A-319	Sequence 319, App
40	6	5.3	117	6	US-10-821-234-1362	Sequence 1362, Ap
41	6	5.3	123	6	US-10-793-626-430	Sequence 430, App
42	6	5.3	132	6	US-10-467-657-6430	Sequence 6430, Ap
43	6	5.3	153	6	US-10-467-657-1704	Sequence 1704, Ap
44	6	5.3	158	6	US-10-510-386-128	Sequence 128, App
45	6	5.3	163	6	US-10-131-826A-504	Sequence 504, App

ALIGNMENTS

RESULT 1
US-10-985-205-3
; Sequence 3, Application US/10985205
; Publication NO. US20050266400A1
; GENERAL INFORMATION:
; APPLICANT: Dumonceaux, Julie
; APPLICANT: Cormier, Emmanuel G.
; APPLICANT: Gardner, Jason P.
; APPLICANT: Dragic, Tatjana
; TITLE OF INVENTION: NOVEL SEQUENCES ENCODING HEPATITIS C VIRUS GLYCOPROTEINS
; FILE REFERENCE: 71242-A/JPW/AJD
; CURRENT APPLICATION NUMBER: US/10/985,205
; PRIOR FILING DATE: 2004-11-09
; PRIOR APPLICATION NUMBER: US 60/519,536
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 3011
; TYPE: PRT
; ORGANISM: Hepatitis C virus
US-10-985-205-3

Alignment Scores:
Pred. No.: 7.2e-26
Score: 34.00
Length: 3011
Percent Similarity: 100.00%
Conservative: 0
Best Local Similarity: 100.00%
Mismatches: 0
Query Match: 29.8%
Indels: 0
DB: 6
Gaps: 0

US-09-873-224B-147 (1-346) x US-10-985-205-3 (1-3011)

QY 226 TGGGCTCAGCCCGGTACCTTGGCCCTATATGGAATGAGGCTCGGGTGGCAGG 285

;; PRIOR FILING DATE: 1999-02-09
;; Remaining Prior Application data removed - See File Wrapper or PALM.

DB:	7	Gaps:	0
US-09-873-224B-147 (1-346) x US-11-166-412-66 (1-371)			
Qy	302	GGGGCTCTCGCCCGTCGTGGG	322
Db	60	AlaAlaLeuAlaArgArgGly	66
RESULT 11			
US-10-650-326B-13			
; Sequence 13, Application US/10650326B			
; Publication No. US20050272649A1			
; GENERAL INFORMATION:			
; APPLICANT: Hraska, Keith A.			
; APPLICANT: McCartney, John E.			
; APPLICANT: Charette, Marc F.			
; TITLE OF INVENTION: CONJOINT ADMINISTRATION OF MORPHOGAG			
; FILE REFERENCE: JJJ-P01-599			
; CURRENT APPLICATION NUMBER: US/10/650,326B			
; CURRENT FILING DATE: 2003-08-28			
; PRIOR APPLICATION NUMBER: 60/406,431			
; PRIOR FILING DATE: 2002-08-28			
; NUMBER OF SEQ ID NOS: 31			
; SOFTWARE: PatentIn version 3.2			
; SEQ ID NO 13			
; LENGTH: 372			
; TYPE: PRT			
; ORGANISM: Homo sapiens			
US-10-650-326B-13			
Alignment Scores:			
Pred. No.:	20, 4	Length:	372
Score:	7.00	Matches:	7
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	6.14%	Indels:	0
DB:	6	Gaps:	0
US-09-873-224B-147 (1-346) x US-10-650-326B-13 (1-372)			
Qy	294	GTCCCGCGCGGCTCTCGCCC	314
Db	338	ValProAlaArgLeuSerPro	344
RESULT 12			
US-11-088-686-1			
; Sequence 1, Application US/11088686			
; Publication No. US20050260637A1			
; GENERAL INFORMATION:			
; APPLICANT: Yen, Yun			
; TITLE OF INVENTION: DRUG SCREENING			
; FILE REFERENCE: 14037-004001			
; CURRENT APPLICATION NUMBER: US/11/088,686			
; CURRENT FILING DATE: 2005-03-23			
; PRIOR APPLICATION NUMBER: US 60/556,836			
; PRIOR FILING DATE: 2004-03-25			
; NUMBER OF SEQ ID NOS: 59			
; SOFTWARE: FastSeq for Windows Version 4.0			
; SEQ ID NO 1			
; LENGTH: 389			
; TYPE: PRT			
; ORGANISM: Homo sapiens			
US-11-088-686-1			
Alignment Scores:			
Pred. No.:	20, 1	Length:	389
Score:	7.00	Matches:	7
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	6.14%	Indels:	0
DB:	7	Gaps:	0

US-09-873-224B-147 (1-346) x US-11-088-686-1 (1-389)

QY 237 CGGTACCTTGGCCCTATA 257
Db 5 ArgValProLeuAlaProIle 11

RESULT 13

US-11-088-686-3
; Sequence 3, Application US/11088686
; Publication No. US20050260637A1
; GENERAL INFORMATION:
; APPLICANT: Yen, Yun
; TITLE OF INVENTION: DRUG SCREENING
; FILE REFERENCE: 14037-004001
; CURRENT APPLICATION NUMBER: US/11/088,686
; CURRENT FILING DATE: 2005-03-23
; PRIOR APPLICATION NUMBER: US 60/556,836
; PRIOR FILING DATE: 2004-03-25
; NUMBER OF SEQ ID NOS: 59
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 389
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-088-686-3

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Pred. No.: 20.1 Length: 389
Score: 7.00 Matches: 7
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 6.14% Indels: 0
DB: 7 Gaps: 0

US-09-873-224B-147 (1-346) x US-11-088-686-3 (1-389)

QY 237 CGGTACCTTGGCCCTATA 257
Db 5 ArgValProLeuAlaProIle 11

RESULT 14

US-11-088-686-5
; Sequence 5, Application US/11088686
; Publication No. US20050260637A1
; GENERAL INFORMATION:
; APPLICANT: Yen, Yun
; TITLE OF INVENTION: DRUG SCREENING
; FILE REFERENCE: 14037-004001
; CURRENT APPLICATION NUMBER: US/11/088,686
; CURRENT FILING DATE: 2005-03-23
; PRIOR APPLICATION NUMBER: US 60/556,836
; PRIOR FILING DATE: 2004-03-25
; NUMBER OF SEQ ID NOS: 59
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 389
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-088-686-5

Alignment Scores:
Pred. No.: 20.1 Length: 389
Score: 7.00 Matches: 7
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 6.14% Indels: 0
DB: 7 Gaps: 0

US-09-873-224B-147 (1-346) x US-11-088-686-5 (1-389)

QY 237 CGGTACCTTGGCCCTATA 257
Db 5 ArgValProLeuAlaProIle 11

RESULT 15

US-11-088-686-7
; Sequence 7, Application US/11088686
; Publication No. US20050260637A1
; GENERAL INFORMATION:
; APPLICANT: Yen, Yun
; TITLE OF INVENTION: DRUG SCREENING
; FILE REFERENCE: 14037-004001
; CURRENT APPLICATION NUMBER: US/11/088,686
; CURRENT FILING DATE: 2005-03-23
; PRIOR APPLICATION NUMBER: US 60/556,836
; PRIOR FILING DATE: 2004-03-25
; NUMBER OF SEQ ID NOS: 59
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 389
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-088-686-7

Alignment Scores:
Pred. No.: 20.1 Length: 389
Score: 7.00 Matches: 7
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 6.14% Indels: 0
DB: 7 Gaps: 0

US-09-873-224B-147 (1-346) x US-11-088-686-7 (1-389)

QY 237 CGGTACCTTGGCCCTATA 257
Db 5 ArgValProLeuAlaProIle 11

Search completed: January 28, 2006, 05:00:13
Job time : 9.5 secs

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